

REPORT
OF THE
New Jersey State
Museum

1912

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ANNUAL REPORT
OF THE
NEW JERSEY STATE
MUSEUM.

Including the Indexes of the Reports of
1905, 1906, 1907, 1908, 1909,
1910 and 1911

1912

UNION HILL, N. J.
DISPATCH PRINTING COMPANY,

1913
C.

Commissioners of the New Jersey State Museum.

STATE COMMISSIONER OF EDUCATION, CALVIN N. KENDALL, *President*.

STATE GEOLOGIST, HENRY B. KUMMEL, *Secretary*.

PRESIDENT STATE BOARD OF AGRICULTURE, JOS. S. FRELINGHUYSEN.

PRESIDENT OF THE SENATE, JOHN D. PRINCE.

SPEAKER OF THE HOUSE, THOMAS F. MCCRAN.

SILAS R. MORSE, *Curator*.

Heads of the Several Departments of the New Jersey State Museum

CALVIN N. KENDALL, COMMISSIONER OF EDUCATION,
Educational.

JACOB G. LIPMAN, PH. D., RUTGERS COLLEGE,
Agriculture.

HENRY B. KUMMEL, STATE GEOLOGIST,
Geology.

JOHN C. SMOCK, EX-STATE GEOLOGIST,
Forestry.

THOMAS J. HEADLEE, PH. D., STATE ENTOMOLOGIST,
Entomology.

JAMES T. MORGAN, DEPUTY OF BUREAU OF LABOR STATISTICS,
Manufactures.

HERBERT M. LLOYD, SECRETARY OF GEOLOGICAL SURVEY,
Archaeology.

Letter of Transmittal.

TRENTON, N. J., November 30th, 1912.

*To the Honorable Woodrow Wilson, Governor of the
State of New Jersey:*

SIR.—I have the honor to present, for the Commissioners of the New Jersey State Museum, the annual report, including a report of the indexes of the reports of 1905, 1906, 1907, 1908, 1909, 1910 and 1911.

SILAS R. MORSE,

Curator.

Table of Contents

	Page.
Part I—Curator's Report	9
Report of 1911	10
Visitors	10
Museum Reports Appreciated	10
Letters of Appreciation	11
Publications Received	18
Additions to the Museum	20
Part II—Partially combined index of the Reports from 1905 to 1911, in- clusive	21
Index of Fish—Common Names	23
Index of Fish—Technical Names	48
Index of Amphibians & Reptiles—Common Names.....	82
Index of Amphibians & Reptiles—Technical Names.....	93
Index of Mammals—Common & Technical Names.....	106
Index of Birds—Common Names	109
Index of Insects—Common Names	115
Index of Insects—Technical Names	122
Table of Contents 1909 Report.....	147
Index of Plants—Common & Technical Names	148
Index of Crustaceans—Common & Technical Names	165
Index of Illustrations of Fish	187
Index of Illustrations of Amphibians & Reptiles	196
Index of Illustrations of Mammals	198
Index of Illustrations of Birds	199
Index of Illustrations of Plants	201
Index of Illustrations of Crustaceans	204

PART 1.

Curator's Report

The report this year consists mostly of the indices of the Report for 1905, "The Fish of New Jersey"; the Report for 1906, "The Amphibian and Reptiles of New Jersey"; the Report for 1907, "The Mammals of New Jersey"; the Report for 1908, "The Birds of New Jersey"; the Report for 1909, "The Insects of New Jersey"; the Report for 1910, "The Plants of Southern New Jersey. With Especial Reference to the Flora of the Pine Barrens"; and the Report for 1911, "The Crustacea (Crabs) of New Jersey." This is done, as several of the reports have supplements in other reports, and in this way the subject or name can be readily found.

It is the intention of the Museum Commission to place this report in the State and school libraries and institutions having a set of the Reports of the New Jersey State Museum on the Natural History Subjects. The report will contain an indices of the technical and common names and also the illustrations of these reports. We believe it will be a great benefit to those who wish to consult the reports.

THE REPORT FOR 1911.

The Museum Commission was greatly disappointed in the Report for 1911. We intended to have for the natural history part of the report a paper on "The Fresh and Salt Water Shell Fish of New Jersey." It was very nearly completed when the compiler of the paper was taken sick, and therefore could not finish this part of the report. So we then had to substitute for that part "The Crustacea of New Jersey," by Mr. Henry W. Fowler, of the Academy of Natural Sciences, at Philadelphia, who compiled the papers on "The Fish of New Jersey" and the paper on "The Amphibians and Reptiles of New Jersey." The paper on the Crustacea was intended for a later report, but Mr. Fowler kindly consented to prepare the paper at a great sacrifice to himself, as he was obliged to give up his vacation. On account of this delay the 1911 report is late in being distributed.

We hope to be able to have the Shell Fish paper ready for the next year's report.

10 REPORT OF NEW JERSEY STATE MUSEUM.

VISITORS.

The Museum is open during the hours that the State House is open to the public. A cordial invitation is extended to the people to visit the Museum. Many pupils of the schools take advantage of the Museum to study natural history. Classes from the public and private schools come chaperoned by teachers. The number of visitors during the past year has been larger than any previous year. The regret is that we do not have room enough to display the specimens to a good advantage, but we hope soon to have more room. A large part of the exhibits cannot be shown in our present rooms for want of space. A large part of the educational exhibit has to be stored where it cannot be seen, which is greatly regretted.

THE MUSEUM REPORTS APPRECIATED.

To show in part how the natural history reports of the New Jersey State Museum are appreciated we quote a few of the many letters we have received from prominent persons and educators:

Princeton, N. J.
February 14th, 1907.

S. R. MORSE, ESQ.,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my sincere thanks for a copy of your last annual report on the fishes of New Jersey. I have examined it with great interest and do not doubt that I will find it in the future a valuable book of reference.

Yours very truly,

(Signed) GROVER CLEVELAND.

State of New Jersey,
Executive Department,
February 20, 1911.

S. R. MORSE.
My Dear Mr. Morse:—

I am obliged to you for your thoughtful kindness in sending me a copy of the report on insects of New Jersey, but I am sorry to say that inasmuch as I am at present living in a hotel, there is no place for me to keep books, and I would be very much obliged if you would keep reports intended for me on file in your office so that I may have access to them at some subsequent time.

Sincerely yours,

(Signed) WOODROW WILSON.

Mr. S. R. Morse,
Trenton, N. J.

February 28th, 1912.

MR. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

I thank you very much for sending me a copy of the last report of the New Jersey State Museum, "The Plants of New Jersey," which I will examine with great interest.

Yours very truly,

(Signed) JOHN D. PRINCE.

State of New Jersey,
Senate Chamber,
John D. Prince, Pres.

Plainfield, N. J., February 21st, 1912.

PROF. S. R. MORSE,
Curator State Museum,
Trenton, N. J.

Dear Prof. Morse:—

It was indeed a pleasure to receive from you one of the last Museum reports, "The Plants of New Jersey," and I sincerely thank you for your courtesy for keeping my name on your mailing list. If you can do so conveniently and consistently, I will appreciate two additional copies.

Sincerely yours,

(Signed) ERNEST R. ACKERMAN.

HON. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The last report of the State Museum has been received. It is an interesting and instructive report. You are doing a good work.

Very truly yours,

E. C. STOKES.

12 REPORT OF NEW JERSEY STATE MUSEUM.

Commonwealth of Virginia,
Governor's Office,
Richmond, April 27th, 1912.

S. R. MORSE, ESQ., *Curator,*
Trenton, N. J.

Dear Mr. Morse:—

I have received the last report, "The Flora of Southern New Jersey," and find it a very interesting and able production.

Very truly yours,

(Signed) WM. HODGES MANN,
Governor.

UNITED STATES SENATE,
WASHINGTON.

Elizabeth, N. J., October 30, 1906.

PROF. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my thanks for the Report of the State Museum, and your letter of the 29th in regard thereto, duly received. I am very glad to have this report; it is a very interesting and instructive publication.

Very truly yours,

(Signed) JOHN KEAN.

George M. McCarthy,
State Tax Commission New Jersey,
February 26, 1912.

MR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The report for 1910 is one of the finest pieces of work of its kind issued by the State.

Very truly yours,

(Signed) GEORGE M. McCARTHY.

Trenton, N. J., October 12, 1906.

M. Dear Mr. Morse:—

Permit me to thank you for the very valuable and desirable books you sent me. I appreciate your thoughtfulness very much.

Sincerely yours,

(Signed) BARTON B. HUTCHINSON.

Counselor at Law, Trenton N. J.

142 Broad St., Elizabeth, N. J.
March 12, 1903.

My Dear Mr. Morse:—

I am in receipt of copies of your Annual Report as Curator of the Museum. I have looked over them with a great deal of interest and pleasure and congratulate you on the preparation of such an interesting work.

Yours truly,

(Signed) FOSTER M. VOORHEES.

November 2nd, 1907.

HON. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Thank you very much for your pleasant note of October 31st, and a copy of your last Museum Report, which I am very glad to have, and which I expect to take much pleasure in looking over as soon as the campaign is ended.

With best wishes, believe me,

Yours sincerely,

(Signed) FRANKLIN MURPHY.

DEPARTMENT OF COMMERCE AND LABOR.
BUREAU OF FISHERIES.

Washington D. C., October 1, 1908.

DR. S. R. MORSE,
*Curator New Jersey State Museum,
Trenton, N. J.*

Sir:—

Allow me to express my appreciation of the receipt of the Annual Report of the New Jersey State Museum containing the mammals of New Jersey, and other supplemental reports.

It makes an excellent addition to the volumes of Fishes and Amphibians already received from you and form handy reference books during biological work.

Sincerely,

(Signed) T. E. B. POPE.

14 REPORT OF NEW JERSEY STATE MUSEUM.

J. S. Frelinghuysen,
76 William Street, New York,
October 19, 1906.

MR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

I have your favor of the 11th inst., and beg to thank you most sincerely for your kindness in sending me copy of the State Museum Report.

Yours very truly,

(Signed) J. F. FRELINGHUYSEN.

LOUISIANA STATE MUSEUM,
NEW ORLEANS.

September 28th, 1908.

PROF. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Dear Sir:—

In the name of the Board of Curators of the Louisiana State Museum, I beg to extend to you our thanks for your splendid report of the New Jersey State Museum, which is a very valuable contribution to the natural history of the State.

We are also interested in the report of the participation of the museum in the Jamestown Exposition, and your very fine views of the exhibit vividly recall to the writer's mind your splendid display which we have inspected with much pleasure.

You and your museum are certainly to be congratulated upon the results that you have achieved and the promising future that is before you.

Again thanking you for the repoort, we remain,

Yours truly,

(Signed) ROBERT GLENK, Sec'y.

STATE OF NEW JERSEY,
SENATE CHAMBER.

Paterson, N. J., October 19th, 1906.

S. R. MORSE, ESQ.,
Curator State Museum,
Trenton, N. J.

My Dear Mr. Morse:—

I received your state museum report and am very much pleased with it. I thank you for sending me these copies, as I am very much interested in the fish of New Jersey.

Yours very truly,

(Signed) WOOD McKEE.

TESTIMONIALS.

15

STATE OF NEW JERSEY,
FISH AND GAME COMMISSIONERS.

Long Branch, N. J., October 18, 1906.

MR. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Your report is going to be in great demand by libraries, museums, natural history scientists and school teachers. I have had a great many inquiries about it already. We could also use it as the best work we have on fish and game published by the State. I could make that take the place of the book formerly published by the Commission.

Yours very truly,

(Signed) BENJ. P. MORRIS,

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA.

Home Office, Newark, N. J.,
October 30, 1906.

Dear Sir:—

I am very much pleased to have the copy of the State Museum Report which you were good enough to send me, and I beg to thank you for your courtesy.

Believe me,

Very truly yours,

(Signed) JOHN F. DRYDEN,
President.

New York, October 29, 1906.

S. R. MORSE, ESQ.,
*Curator, State House,
Trenton, N. J.*

Dear Mr. Morse:

I received the report of the State Museum and thank you for the same. It is very fine.

Very truly yours,

(Signed) EDMUND W. WAKELEE.

NEW YORK AQUARIUM.

Battery Park,
New York, October 12, 1909.

MR. S. R. MORSE, *Curator,*
N. J. State Museum,

My Dear Sir:

I am indebted to you for a copy of your Museum document on the Birds of New Jersey, for which please accept my thanks and congratulations.

Very sincerely yours,

(Signed) C. H. TOWNSEND,
Director.

16 REPORT OF NEW JERSEY STATE MUSEUM.

NEW YORK STATE EDUCATIONAL DEPARTMENT.
SCIENCE DIVISION.

Director's Office, State Hall,
Albany, N. Y., October 9, 1908.

S. R. MORSE, ESQ.,
Curator, New Jersey State Museum,
Trenton, N. J.

My Dear Sir:

I beg to acknowledge the receipt of your report on the mammals of New Jersey. In my judgment this is a very useful and interesting work and does distinctive credit to your institution.

Very truly yours,
(Signed) JOHN M. CLARKE,
Director.

STATE OF MAINE.

OFFICE OF CHAIRMAN OF COMMISSIONERS OF INLAND FISHERIES AND GAME.
Augusta, Maine, October 12, 1906.

PROF. S. R. MORSE,
Curator, New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I have received copy of your Museum's last report—"The Fish of New Jersey," and wish to thank you for the same. It is a very valuable publication, and will be very handy for reference in our work.

Thanking you for your kindness in thus remembering us, I am,

Yours truly,
(Signed) LEROY T. CARLETON,
Chairman.

COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE—DIVISION OF ZOOLOGY.

Harrisburg, Pa., February 10, 1911.

PROF. S. R. MORSE,
Curator of New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I congratulate you and Professor Smith upon the recent issue of a revised catalog of "The Insects of New Jersey." I write to ask if you will kindly favor me by sending me a personal copy. We are intending to follow your good work in which your State has been such an excellent pioneer, as we hope to have legislation for the publication of such a catalog.

Hoping to reciprocate favors in full in any way possible, and assuring you of my high appreciation of your service, I am,

Very truly yours,
(Signed) H. A. SURFACE,
Economic Zoologist.

COURT OF ERRORS AND APPEALS OF NEW JERSEY.

16th October, 1909.

My Dear Sir:

I have received the Report for 1909. As I am particularly interested in the question of New Jersey birds and New Jersey fishes, the book was of special value to me.

The report is a credit to the State, I thank you for the copy you sent me.

Faithfully yours,

(Signed) JAMES B. DILL.

To:

MR. SILAS R. MORSE,
*Curator, New Jersey State Museum,
Trenton, New Jersey.*

NEW JERSEY AGRICULTURE EXPERIMENT STATION.

New Brunswick, N. J.

MR. S. R. MORSE,
Trenton, N. J.

My dear Mr. Morse:

Last evening, I spent part of my time looking over your report, and desire to congratulate you upon the completeness of the report and the excellence of the cuts accompanying it. It is surely a great credit to the State.

Very truly yours,

(Signed) E. B. Voorhees,
Director.

Publications Received by the New Jersey State Museum.

- Annual Report of the Philadelphia Museums, 1911.
 Eighth Annual Report of the Newark Shade Tree Commission.
 Museums of the Brooklyn Institute of Arts and Science Report for 1911.
 Ecological Successions by Victor Shelford.
 University of Illinois Bulletin No. 52.
 University of Illinois Bulletin No. 51.
 University of Illinois Bulletin No. 50.
 Zoological Society Bulletin No. 52.
 University of Illinois, Agricultural Experimental Station Bulletin No. 152.
 American Museum of Natural History, General Guide of Exhibition Hall. No. 35.
 University of Illinois, Agricultural Experiment Station Circular No. 155.
 Camden Board of Trade Journal, January, 1912.
 University of Illinois Bulletin No. 53.
 The American Museum of Natural History Journal, Vol. 12, No. 1.
 Zoological Society Bulletin No. 49.
 Bulletin of the Pennsylvania Museums.
 Annual Report of the Philadelphia Museums, 1910.
 Annual Report of the Philadelphia Museums, 1909.
 Annual Report of the Philadelphia Museums, 1908.
 Annual Report of the Philadelphia Museums, 1907.
 Annual Report of the Philadelphia Museums, 1905.
 University of Illinois Bulletin No. 54.
 University of Illinois, Agriculture Experiment Station, Bulletin No. 153. Abstract.
 University of Illinois, Agriculture Experiment Station, Bulletin No. 154.
 Camden Board of Trade Journal, February, 1912.
 University of Illinois Bulletin No. 55.
 Forty-second Annual Report of the Trustees of the American Museum of Natural History.
 Bulletin of the Charleston Museum, February, 1912. Vol. 12, No. 2.
 Camden Board of Trade Journal, March, 1912.
 Bulletin of the New York Botanical Garden.
 Bulletin of the Charleston Museum. Vol. 13, No. 3.
 University of Illinois Bulletin No. 56.
 University of Illinois Bulletin Soil Report No. 1.
 The American Museum of Natural History, Journal Vol. 12, No. 3.
 Camden Board of Trade Journal, April 1912.
 University of Illinois Agriculture Experiment Station. Bulletin No. 155.
 Bulletin of the Pennsylvania Museum, April, 1912.
 Zoological Scientific Contribution of the New York Zoological Society.
 Quarterly Journal of Experimental Physiology, Vol. 5, No. 1.
 Studies of Sex-Determination in Amphibians.
 The Effect of Some Amido-Acids on the Development of the Eggs of Arbacia and of Chaetopterus.
 U. S. Department of Agriculture, Experiment Station Record, Vol. 26, No. 5.
 Smithsonian Institution, U. S. National Museum, Bulletin 78.
 Bulletin of the Detroit Museum of Art.
 American Museum Journal, Vol. 12, No. 4.

- University of Illinois, Bulletin No. 59.
Camden Board of Trade Journal, May, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 51.
American Museum of Natural History, Vol. 12, No. 5.
The Chemical Analysis of the Ash and Smooth Muscle, Wistar Institute.
U. S. Department of Agriculture, Biological Survey, Bulletin No. 42.
University of Illinois, Bulletin No. 58.
Camden Board of Trade Journal, June, 1912.
University of Illinois, Bulletin No. 60.
Bulletin of the Pennsylvania Museum, July, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 52.
University of Illinois Bulletin, Agriculture Experiment Station, No. 158.
University of Illinois Bulletin, Agriculture Experiment Station, No. 157.
University of Illinois Bulletin, Agriculture Experiment Station, No. 156.
University of Illinois Bulletin, Agriculture Experiment Station, Soil Report No. 2.
U. S. Department of Agriculture, Farmer's Bulletin 510, Game Laws for 1912.
U. S. Department of Agriculture, Bureau of Biological Survey Circular 88.
Camden Board of Trade Journal, August, 1912.
Camden Board of Trade Journal, September, 1912.
N. Y. Zoological Society, Vol. 1, No. 10.
Industrial Philadelphia, Foreign Trade Bureau.
N. Y. Zoological Society Bulletin, Vol. 16, No. 53.
Camden Board of Trade, October, 1912.
U. S. Department of Agriculture, Bureau of Biological Survey, Circular No. 87.
Bulletin of the Penn. Museum, October, 1912.
Bulletin of the Detroit Museum of Art, Vol. 6, No. 4.
Bulletin of the Wisconsin Natural History Society, Vol. 9, No. 4.
University of Illinois, Agriculture Experiment Station, Bulletin No. 151.
Report of the Forestry Department, Indiana, 1911.
Seventh Annual Report of the Newark Shade Tree Commission.
Educational Appliances for the Instruction of Natural History.
University of Illinois Annual Register, 1911-1912.
The Training School at Vineland, 1911.
The Detroit Museum of Art, Annual Report.
State of New Jersey, Road Commissioner's Report.
Museums of the Brooklyn Institute of Art and Sciences, Report.
Proceedings of the American Association of Museums, Vol. 9.
Report of the Illinois State Museum of Natural History.

Additions to the Museum Specimens by Purchase

BIRDS.

Audubon's Shear Water, Female.
Henslow's Sparrow, Male.
Glossy Ibis, Male and Female.
Scissor-tailed Flycatcher, Male and Female.
Blue-gray Gnatcatcher, Male.
European Woodcock, Male and Female.
Passenger Pigeon.

MAMMALS.

Two Fawns.
Buffalo Head.
Elk Head.
Black Bear.
Jumping Mouse.
Ground Squirrel.
Wild Cat.
Mole.
Otter.
Black Woodchuck.

REPTILE.

Map Turtle.

PART 2.

INDEX

Of the Common Names of Fish found in the Report
of 1905, and in the Supplements of the
Reports of 1906, 1907 and 1908.

A.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Abbott's minnow	146		146	
Albacore	241			
Alewife	95			355
Alewives	94	265	136	
Alligator fishes	376			
All mouth	425			
Amber fishes	251		166	377
American club fish	103			
soles	397			
Anchovies	108			
anchovies, Silvery	108			
Anchovy	109	267, 268		
Broad banded				361
angel, Black	353			
Angel fish	348, 354	330		
angels, Black	353	330		
Angler	425		189	392
Anglers	424, 425	348		
Apple core	241			
Atlantic salmon	433			
Attractive minnow	148			

B.

back, Brass	99	
bait, White	213	
Balaos	207	286
Balloon fish	366	
Banded drum	338	326
pickerel	175	280
seriola	251	
sun fish	146, 285	312
Banker	103	
Barb	336	

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Barn door skate	73	258		
barracuda, Northern	222	289		
Barracudas	220, 221			
Barred minnow	193			
Basking sharks	57			
bass, Black	308, 438			
Calico	437	324	168	379
Channel	333		178	
Grass	437			
Large mouth black	438		174	
Large mouthed	438			
Oswego	438			
Rock	437			
Sea	304, 308	316		
Silver	440			
Small mouthed black	438			381
Strawberry	437			
Striped	306, 440	314		
White	440			
Bass sun fish	278			
beaks, Half	208			
Bellows fish	425			
Bengal	343		180	386
Bergall	343			
Big cat fish	166			
drum	338			
eyed scad		300		
gar		284		
porgy	321			
spotted skate	71			
spotted skates		259		
Bill fish	204, 207, 231			
Black angel	353	330		
angels	353			
bass	308, 438			
cat fish	169			
drum	338	326		385
eared sun fish	292			
fish	308, 329			
fish	344			
fishes	344			
grunt	313			
nosed dace	149	276		
perch	313			
rudder fish	272	308	168	
rudder fishes	272			
sea bass	308	316		383
sucker	158	276		
black fish, Smooth	344		181	
Blanquillos	339			
Blennies	402			
Shell	403	343		
Blenny	403	343		
Blob	372			
Blobs	372			

COMMON NAMES OF FISH.

25

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
blower, Mud	417			
Blue fish	265	307	169	387
angel fish		330		
fishes	264, 265			
gill sun fish	294			
lined minnow	141			
spotted sun fish	280	312	167	380
sun fish	294			
Blunt head	188, 193			
nosed minnow	129	268		
nosed shiner	259			
nosed sturgeon	86			
Bob tailed skate	72			
Bone eater	242			
jack	242			
Bonito	242	294	166	
Bonitos	242			
Bonnet headed shark	65	257		
Bony fish	103			
Boston mackerel	238			
box fish, Hairy		336		
Brass back	99			
Breams	135			
Bridled minnow	139	271		365
Brier ray	72			
Broad banded anchovy		267		
Brook trout	113, 434			
Brown trout	434	350		
Bull fish				387
Bull head	169, 373			
Common	169			
Bull headed eel	119			
Bunker	103			
Butter fish	263, 404	307	168	379
Ocellated		329		
Streaked		330		
Butter fishes	270	330		
Butterfly fishes	349, 350			
Burbots	417	329		
Burr fishes	366			

C.

Calico bass	437			379
Cape May goody	334	324	179	385
caranx, Yellow	254			
Southern	254			
Carp	430			367
Leather	430			
Mirror	430			
Carp like fishes	125			
Carps	125, 430, 429		147	
Crucian	430			
Casabes	261			
Cero	246			

26 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
cat, Channel	165			
Salt Water	165			
Sea	165			
Stone	171, 173			
Cat fish	166, 167, 169			
Big	166			
Black	169			
Daylight		338		
Lake	431	349		
Little	171			
Marine	166			
Mud	169, 171, 173			
Oceanic	165			
Poison	171, 173			
Pine barren's		278		
River	166	338		
Sea	165		150	
Spotted	431	349		
Stone	169	279	150	
White	166		150	
Yellow	169	278	150	
Cat fishes	164, 431			
Gaff topsail	165			
Catalufas	311			
Rough	312			
cats, Channel	431			
Chætodon	285			
Chain pickerel	177	280		
Channel bass	333	324		
cat	165			
cats	431			
Charrs	113, 434			
choice, Sailors	323	320		
Choker, Hog	397			
Chub	130, 132, 344	268, 269, 283	140	363
mackerel	239			
sucker	159	276, 272		367
suckers	159		147	
clip, Cover	397			
club fish, American	103			
Coachman	310	317		
fishes	310			
Cod	416	344	187	
fish	416			
fishes	413, 416			
fish shark	67			
shark	67			
sharks	416			
cod, Tom	415		187	
cods, Tom	415			

COMMON NAMES OF FISH.

27

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Common bull head	169			
eastern pickerel	177			
herring	93			
pampano	263			
puffer	364			
sculpin	373			
speckled skate		259		
sun fish	294, 295	313		380
Conger	122			
eel	122			
eel pout	406			
eels	121, 122			
Conner	343			
core, Apple	241			
Cornet fishes	228			
Cover clip	397			
Cow fish	79, 80	336		
Cow nosed ray	79	263		
nosed rays	79			
Crab eater	267	307		
Crappie	437	350		
Crappies	436			
Crest gilled fishes	230			
Crevale	254			
Crevalles	254			
Crimson darter	302			
Croaker		324, 325	179	
Croakers	328			
Crucian carps	430			
Cucumber fish	366			
Cunners	343			
Cutlass fish	247			377
fishes	246			
Cut lips minnow	154			
minnows	154			
Cusk	421			
eels	407			
Sand	408		185	
Cusks	421			
cybium, Spotted	244			

D.

Dabs, Mud	395	341		
Dace	135, 134, 150, 151			
Black nosed	149, 150, 151	276	147	
Long nosed	150	275		
Rosy	134	269		
Striped	151			
Damsel fishes	287			
Darter	299, 302	314		
Crimson	312			
Fusiform	302			
Sand	299			
Tessellated	299		174	381

28 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
darters, Little	302			
Deceptive sun fish	289	312		
Devil fish	76, 80			
fishes	80			
devils, Sea	80			
Ditch pike	175			
Doctor fish	356	330		
Dog fish	60, 188, 193	330		
Spiny	67			
Dog shark	60	254, 255		
Dog sharks	60, 66, 416			
Spiny	67			
Dog sherk	60			
Dollar fish	260, 270		167	
Dolphin	273			
Dolphins	272, 273			
dory, Hair finned	260			
Hair finned silver	260			
Spinous	262			
Double bearded flying fish	211	288		
Drum fish	338		180	
drum, Banded	338	326		
Big	338			
Black	338	326		385
Gray	338			
Red	333			384
drums, Red	333			384
Sea	338			
Dusky shark	61	256		
E.				
Eagle rays	78, 79			
Eared sun fishes	289			
eater, Bone	242			
Crab	267	307		
Man	61	256		
Spawn	141			
Eel	119	268	139	361
pout	406			
Conger	406			
pouts	405, 406			
eel, Bull headed	119			
Conger	112			361
Sand	408			
Sea	122			
Eels	118, 119			
Conger	121, 122			
Cusk	407			
Electric ray		260		
rays		260		
skate		260		
Electric star gazers	399			
European topes		253		
eye, Goggle	437	301		
Red	437			
eyes, Nine	48			

COMMON NAMES OF FISH.

29

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
F.				
Fall fishes	130	333		
herring	94			
mackerel	239			
Fat heads	129			
Fiatolas	264			
File fish	357, 358	333		
fishes	357			
file, fish, Orange	359		182	
Thread	358			
fin, Red	43			
Silver	142	272		
Fine scaled suckers	155			
fins, Scaly	347			
fish, Angel	348, 354	328, 330		
Balloon	366			
Bellows	425			
Bill	204, 207, 231			
Black	308, 344	328		
Blue	265, 329			378
Bony	103			
Butter	404, 56, 263			
Cat	166, 167, 169			
Cod	416			
Cow	79, 80			
Cucumber	366			
Cutlass	247			377
Dog	60, 188, 193			
Dollar	260, 270			
Drum	338			
Devil	76, 80			
File	357, 358	333		
Flat	396			
Flying	211, 380, 382	288		
Fool	358			
Frost	115, 117, 415			
Gar	89			
Gizzard				361
Globe	368			
Goat	327			
Gold	430			
Goose	425			
Harvest	270			
Head	368, 425	336		
Hog	299			
Horse	233, 234			
Killi	185, 198			
Killie	188, 193			
King	335, 336			385
Lizard	117			
Lump	378			
May	185			372
Moon	259			378

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
fish, Mouse	427			
Mud	180			
Mud Sun	278			379
Oyster	411			390
Pig	380, 382			
Pilot	251			
Pipe	229, 213			
Rabbit	362			388
Red	333			
Rock	306			
Rudder	269			
Saw	69			
Silver	213			
Silver Gar	204			
Spotted Balloon	366			
Spotted cat	431			
Squirrel	318			
Sun	282, 359, 368			
Suck	387			
Swell	364			
Sword	204, 248			
Tile	340			
Toad	364, 411			
Trigger	357			386
Trumpet	229			
Trunk	390			387
Unicorn	359			
Weak	69, 329			
Wind	135			
Wolf	405			
Fishes	50			
fishes, Alligator	376			
Amber	251			377
Black	344			
Blue	264, 265			378
Burr	366			388
Butter	270			378
Butterfly	349, 350			
Carp like	125			
Cat	164, 431			
Coachman	310			
Cod	413, 416			
Cornet	228			
Crest gilled	230			
Cutlass	246			377
Damsel	287			
Devil	80			
Doctor	356			
Fall	130			
File	357			
Flat	389			
Flying	210, 211			
Frog	426			
Hairy	366			

COMMON NAMES OF FISH.

31

<i>Common Names.</i>	<i>Page of 1905 Report</i>	<i>Page of 1906 Report</i>	<i>Page of 1907 Report</i>	<i>Page of 1908 Report</i>
fishes, Half gilled	223			
Hard skinned	356			
Harvest	269			
Head	368			
Isospondylous	90			
Jugular	398			
Killi	183, 184			
King	335			
Labroid	342			
Leather	358			
Lizard	116, 117			
Lump	378			
Mail cheeked	369			
Moon	260			378
Mouse	426			
Needle	203			
Parrot	346			
Pediculate	424			
Perch like	212, 235			
Pig	319			
Pike like	174			
Pilot	251			377
Pipe	230, 231			377
Plough	259			
Porcupine	365			
Pork	319			
Rabbit	362			388
Rain water	197			
Ribbon	247			
Rock	370			
Rose	370			
Rudder	271			
Saw	68, 69			
Shark like	50			
Sergeant	267			
Spade	347, 348			
Spinny rayed	201			
Sun	276, 295, 436			
Surgeon	355			
Sword	248			
Synentognathous	203			
Thread	259			
Tile	340			
Toad	411			
Trigger	356, 357			386
True	82			
Trumpet	229			377
Trunk	360			387
Weak	329			384
Wolf	404, 405			
Wrasse	342			
Flat fish	396			
New York	396			
Flat fishes	389			

32 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Flounder	393, 396			
Long toothed	393			
Oblong	393			
Sand	390			
Spotted	390			
Summer	393	341		389
Winter	396			
Flounders	389			
Hooked snout		341		
Little	392	339		
Winter	396			
Fluke	393, 395		185	
Flying fish	211, 380, 382		183	
fishes	210, 211			
gurnards	383			
robin	384			
flying fish, Double bearded.....	211			
Single bearded	211			
Fool fish	358			
Frog fishes	426			
Frost fish	115, 117. 415		188	
Fusiform darter	302			

G.

Gaff topsail cat fishes	165			
Gall	343			
Gar	89, 204, 206			
fish	89	284, 285		
pike	89	263		
pikes	87, 88, 89			
gar, Big		284		
Green	204			373
Silvery	204			
gazer, Star	372, 399. 401			
gazers, Star	398	336		
Gizzard shad	105			
Globe fish	368			
Goat fish	327			
Gobies	385			
Naked	386			
Goby	386			
Variegated	386			
Goggle-eye	437			
scad		301		
Goggle-eyed perch	437			
Gold fish	430			
thread shiner	135	269		
Goodies	69, 334			
Goody	334			
goody, Cape May	334	324		
Goose fish	425			
Grass bass	437			
Gray drum	338			
Gray snapper		317		

COMMON NAMES OF FISH.

33

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Great sculpins	373			
tunnies	241	292		
tunny	241			
Green gar	204		163	
pipe fish	231			
Grouper	308			
Red	308			
Groupers	308			
Grunt	318			
Black	313			
Grunters	317			
Grunts	318			
Gudgeon	127, 128, 135, 141	271	144	
Gudgeons	127			
Gunnell	404			
Gunnells	404			
gurnard, Spinous	380			
Gunards	379			
Flying	383			

H.

Haddock	417	346		
Haddocks	417			
Hair finned dory	260			
silver dory	260			
Hairy box fish		336		
fish	366			
Hair tail	246			
Hake	336, 418, 419, 422			392
Hakes	418, 422		187	
Half beaks	208			374
Ribbon	209	288		
Half gilled fishes	223			
Halibut	393			
Hammer head	65	257		
head sharks	64			
heap shark	65			
Hard head	103			
skinned fishes	356			
tail		298	167	
Harvest fish	270			
fishes	269			
pike	204			
Head fish	368, 425	336		
fishes	368			
head, Blunt	188, 193			
Bull	169, 373			
Hammer	65			
Hard	103			
Horny	153	276		
Sheep's	323			
heads, Fat	128			
Horny	153			
Sheep's	323			

34 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Hedgehog ray	70			
Hedgehog skate		257		
Herring	94, 95	264		
Black Belly			137	357
Common	93			
Fall	94			
River	95			
Round	93	264		
Thread	102	266		
Herrings	92, 93			
Round	93			
Thread	102			
Hickory shad	94, 105		136	
Hog choker	397			
fish	299		176	
Hooked snout flounder		341		
Horned pout	166, 169, 431			
Horny head	153	276		
heads	153			
Horse fish	233, 234			
mackerel	265	292		
horse, Sea	233	291		
horses, Red	163			
Sea	233			
Hound eared sun fish	292			

I.

Indian remora	387			
Isabilitas	354			
Isospondylous fishes	90			
Irish sheep's head		328		

J.

jack, Bone	242			
Skip	242, 262			
jacket, Leather		334		
Jenny Lind	253			
Jugular fishes	398			
Spineless	413			
Jurel	258			

K.

killi fish, Barred			156	373
fishes	183, 184		155	
kili fish, Barred			156	373
Least			163	
Killie fish	188, 193			
Little	197			
Killy	188, 193			
King fish	335, 336	325	179	385
fishes	335			

COMMON NAMES OF FISH.

35

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
L.				
Labroid fishes	342			
Lake cat fish	431	349		
Lamper eel	48			351
Lamprey	48			351
Green	48			
River	48			
Sea	48			
Lampreys	48		130	
True	49			
lance, Sand	410		186	
Land locked salmon	434			
Large mouthed bass	438			
black bass	438			
launces, Sand	409			
Leather carp	430			
fishes	358			
jacket		334		
Leech		338		
Leopard shark	61	253, 255		
light, Day		338		
Window	390			
lind, Jenny	253			
Ling	417, 419, 420			
Thimble eyed	419, 420			
Little cat fish	171	349		
darters	302			
flounders	392	339		
killie fish	197			
tunnies	241			
Lizard fish	117			
fishes	116, 117			
Long eared sun fish	146, 292	313		380
nosed dace	150, 151			
toothed flounder	393			
finned anchovy		268		
Log perches	299			
Lump fish	378			
fishes	378			
suckers	377			

M.

Mackerel	238, 239, 265	291	165
porbeagle	54	254	
shark	56		
sharks	54, 56		
scads	254		
mackerel, Boston	238		
Chub	239		166
Fall	239		
Horse	265	292	166
Snap	265		

36 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
mackerel, Snapping	265			
Spanish	244			
Thimble eye	244			
Yellow	254, 256			
Mackerels	236, 237	291, 301		
Spanish	244			
Mademoiselles	332			
Mad toms	171			
Mailed cheek fishes	369			
maker, Shoe	259			
Mamoose	85, 86			
Mamouche	85, 86			
Man eater	61			
eating shark	61			
Many spined stickleback	244			
Marine cat fish	166			
May fish	185		155	372
Menhaden	56, 103			
Menhadens	103			
Miller's Thumb	169	336		
Minnie	145			
Minnow	146, 185, 188, 193			
minnow, Abbott's	146			
Attractive	148			
Barred	193			
Blue green			145	366
Blunt nosed	129	268		
Bridled	139		142	
Cut Lips	154			
Mud	180			371
Pursy	198	281	157	
River	188			
Silvery	14, 127			362
Swallow			142	
minnows, Cut lips	154			
Mud	180			
Pursy	198			
Top	196		158	
Steel side		273		
Minny	143			
Mirror carp	430			
Mojarras	325			
Majorritas	325			
Moon fish	259	306, 304	167	378
fishes	260			
Moose	85			
Mossbanker	103	266	139	360
Mouche				354
Mouse fish	427	348		
fishes	426			
mouth, All	425			
Satchel	425			
Morays	123			
Tropical	124			

COMMON NAMES OF FISH.

37

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Mud blower	417			
cat fish	169, 171, 173			
dabs	395	341		
fish	180			
minnow	180	281		
minnows	180		154	
perch	275			
pike	175			
shad	105			
sucker	158			
sun fish	278, 437	311		379
sun fishes	278			
Mullet	146, 159, 218, 219			375
mullet, Red	327			
Striped	218			
White	219	289		
Mullets	217, 218		165	
Sur	326			
Mummichog	188	282		372
Muskallunge	435	350		

N.

Naked gobies	386	337		
ned, Yellow	146, 298			
Needle fishes	203			
New York flat fish	396			
sole	397			
stickleback	225			
Nibbler	343			
Nine eyes	48			
spined sticklebacks	224			
Northern barracuda	222			

O.

Oblong flounder	393			
Ocean sun fish	368			
sun fishes	368			
trout	103			
Oceanic cat fish	165			
Orange file fish	359			
Oswego bass	438			
Oyster fish	411		187	391

P.

Pampano	263		167	378
Common	263			378
Round	262	301		
Pampanos	249, 262	307		
panes, Window	390	338		
Parrot fishes	346			
Pediculate fishes	424			
Peerch	298, 307			

38 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Perch	298, 307	322, 323		
Black	313			
Goggle eyed	437			
Mud	275			
Pike	439			
Pirate	275	310		379
Red Sea	370			
River	298			
Sand	299			
Silver	332	322, 323		384
Triple tailed	313			
White	307	315, 322	175	382
Yellow	298, 307		174	381
Perches	298, 439			
Log	299			
Pirate	274, 275			
Perch-like fishes	212, 235			
Pickereel	175, 177	280	153	370
Banded	175			
Chain	177	280		
Common eastern	177			
Pigeon string ray	76			
Pig fish	380, 382	390	165	
Rock	380			
Sand	382			
Pig fishes	319			
Pike	175, 177			
perch	439			
like fishes	174			
shiner	134			
pike, Ditch	175		152	370
Gar	89	260		
Harvest	204			
Mud	175			
Sea	204			
Short billed	175			
Silver	115			
Wall eyed	439			
Pikes	174, 175, 435			
Gar	87, 88, 89			
Wall eyed	439			
Pilot fish	251			
fishes	251			
Sharks	251			
Pipe fish	229, 231	290		377
fishes	230, 231			
pipe fish, Green	231			
Pirate	275			
perch	275	310		379
perches	274, 275			
Plough fishes	259			
poachers, Sea	277			
Poison cat fish	171, 173			
Pollock	414	344		
Pollocks	414			

COMMON NAMES OF FISH.

39

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
porbeagle, Mackerel	50			
Porbeagles	54			
Porcupine fishes	365			
Pork fishes	319			
Porgee	321		177	
Rhomboidal	323			
Sand	321			
Porgies	320			383
Porgy	321, 334			383
Big	321			
Possum ray	72			
Sea	72			
pounder, Ten	91			
pounders, Ten	91			
pout, Eel	405, 406			
Puffer	362, 364	336	182	
Common	364			
Southern			182	
Puffers	361			388
Pursy minnow	198			
minnows	198			

Q.

Quinnat salmon	432
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R.

Rabbit fish	362			388
fishes	362			
Rain water fishes	197	283	157	
raven, Sea	375			
ravens, Sea	375			
ray, Brier	72			
Cow nosed	79	263	132	
Hedge Hog	70			
Round Sting		261		
Sting	76	261	131	353
Say's Sting		261	123	
rays, Cow nosed	79			
Eagle	78, 79			
Sting	72, 75, 76			
Red bellied sun fish	292			
drum	333			
drums	333			
eye	437			
fin	43	272, 273	145	
fish	333			
grouper	308			
horses	163			
mullet	327			
sea perch	370			
snapper	317			
Red mouth, Speckled	319	317		

40 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Remora	388	338		
Indian	387			
White tailed	387			
Remoras,	56, 386, 388			
Requiem sharks	61			
Rhomboidal porgee	323			
Ribbon fish	247			
half beaks	209	288		
River cat fish	166			
herring	95			
minnow	188			
perch	298			
sucker	155, 163			
sun fish	292			
Roach	135, 146	269	141	364
Roache		269		
robin, Flying	384			
Round	254			
Sea	380, 382			
Rock	306	314	175	382
bass	437			
fish	306			
fishes	370			
minnow		281		
pig fish	380			
sun fish	282			
Rose fishes	370			
Rosy dace	134	269		
Rough catalufas	312			
scaled silversides	213			
Round herring	93			
herrings	93	264		
pampano	262	306		
robin	254			
sting rays	76	261		
Rudder fish	269	308		
Black	272			
Rudder fishes	271			
rudder fishes, Black	272			

S.

Salt water cat	165			
Saibling	434	295		
Sailor's choice	323	320		383
Sail fish		294, 295		
Salmon	432, 433			
Salmon	112		139	
salmon, Atlantic	433			
Land Locked	434			
Quinnat	432			
Sand cusks	408			
darter	299			
eel	408			
flounder	390			
lance	410		186	390

COMMON NAMES OF FISH.

41

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Sand launces	409			
perch	299			
pig fish	382			
porgee	321			
shark	52	254		
sharks	52			
smelts	216			
Santiago	16			
Satchel mouth	425			
Sauries	206, 207			
Saw fish	69			
fishes	68, 69			
Say's sting ray	77	261		
Scad	254			
goggle eye		301		
Big eye		300		
scads, Mackerel	254			
Scaly fins	347			
Sculpin	373			
Common	373			
Sculpins	371	337		389
Great	373			
Scup	321			
Scups	321			
Sea bass	304, 308		176	
cat	165			
cat fish	165			368
devils	80			
drums	338			
eel	122			
horse	233	291	165	
horse, White spotted		291		
pike	204			
poachers	377			
possum	72			
raven	375			
ravens	375			
robin	380, 382		183	389
tog	344	328		
Sea bass, Black	308	316		
Searer	246			
Sergeant fishes	267			
Seriola, Banded	251			
Shad	99	265	138	358
Gizzard	105			360
Hickory	94, 105		136	355
Mud	105			
Young	135			
Shadine	94, 103			
Suckers	387			
Shark	52, 61			
shark, Bonnet headed	65	257		
Cod	67			
Cod fish	67			

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
shark, Dusky	60, 61	256		
Hammer head	65	257		
Leopard	61	255		
Mackerel	56	254		
Man eating	61	256		
Sand	52	254	121	
Sharp nosed	63	257		
Shovel nose	52, 65			
Small blue	62			
Small white		256		
Spotted	61	255		
Thorn back	67			
Thresher	53			
White	62	256		
Shark like fishes	50			
Sharks, Basking	57			
Cod	416			
Dog	60, 66, 416		124	
Dusky			124	
Fox	53			
Hammer head	64		127	352
Mackerel	54, 56			
Requeim	61			
Sand	51, 52		121	352
Sharp nosed	63			
Small white			127	
Spiny dog			128	
Thresher	53		123	
Tiger	61	255	124	
Typical	59			
Shark's pilot	251			
Sharp nosed shark	63	320		
sharks	63			
Sheep's head	323	320	177	383
heads	323			
Shell blennies	403	343		
sherk, Dog	60			
Shiner	135, 137, 142, 143			
shiner, Blunt nosed	259			
Gold thread	135	369		
Pike	134			
Smelt	141			
Shiners	138			
Shoe maker	259			
Short bill pike	175			
nosed sturgeon	86			
Shovel nosed shark	52, 56			
Sier	246			
Siering	246			
Silver bass	440			
fin	142	272	144	366
fish	213			
gar	204			
gar fish	204			

COMMON NAMES OF FISH.

43

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Silver perch	332			384
pike	115			
Silverside	216	288		
Silversides	212, 213, 215, 216		164	
Rough scaled	213	288		
Short finned			164	
Silvery anchovies	108			
gar	204			
minnow	14, 127			
Single bearded flying fish	211			
Skate	72, 73			
Barn door	73	259		352
Big spotted	71	259	129	
Bob tailed	72			
Common speckled		259	131	352
Electric		260		
Hedge hog		257	128	
Skates	69, 70			
Skip jack	242, 265			
Small blue shark	62			
mouthed black bass	438			
Smelt	115			361
shiner	141			
Smelt, Sand	216			
Smelts	114, 115			
Smooth black fish	344			
Snap mackerel	265			
Snapper	265			
Red	317			
Snappers	315			
Snapping mackerel	265			
Snippick	204			
Sole	390, 397		185	
New York	397			
Soles	396			390
American	397			
Southern caranx	254			
Soury	117			
Spade fishes	347, 348	328		
Spaniard	244			
Spanish mackerel	244			
mackerels	244			
Spawn eater	141			
Speckled red mouth	319	259, 317		
Sperlin	110	267		
Spineless jugular fishes	413			
Spinous dory	262			
gurnard	380			
Spiny dog fish	67			
dog sharks	67			
rayed fishes	201			
Splaice	393			
Spot	334			
Spotted balloon fish	366			
cat fish	431	349		

44 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Spotted cybium	244			
fin sun fish	282			
finned sun fish	280			
flounder	390			
shark	61			
sun fish	146, 280			
sun fishes	280			
turbot	390			
weak fish	331			
sea horse		291		
Squeateague	329			
Squirrel fish	318			
Star gazer	372, 399, 401	336		
Electric	399			
Northern		341, 342		
Spotted		341		
gazers	398			
Stickleback	224, 225, 227			
Four spined				376
Many spined	224			
New York spined	225			
Ten spined	224	290		
Three spined		290		
Two spined	225	290		
Sticklebacks	223			
Nine spined	224			
Ten spined	224	290		
Three spined	227	290		
Stingaree	76, 79	262		
Sting ray	76	261	131	353
Pigeon	76			
Say's	77	261	132	
Whip	77	261		
Sting rays	72, 75, 76	261		
round	76	261		
Stone cat	171, 173	279		
cat fish	169			
Strawberry bass	437			
Striped bass	306, 440			
dace	151			
mullet	85			
Sturgeon	85		133	353
Blunt nosed	86			
Common			133	
Short nosed	86		133	
Sturgeons	84, 85			
Sucker	155			
Black	158	276		367
Chub	159	276, 277		367
Creek				367
Gravel				376
Mud	158			
Sand				367
River	155, 163			
White	155			367

COMMON NAMES OF FISH.

45

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Suckers	154			
Chub	159			367
Fine scaled	155			
Lump	377			
Shark	387			
Summer flounder	393	341	184	389
Sun fish	276, 282, 295, 359, 368, 436	313		
Banded	146, 285	312, 311	172	
Bass	278			
Black eared	292			
Blue	294			
Blue gill	294			
Blue spotted	280	312	170	380
Common	294, 295	313	172	380
Deceptive	289	312		
Eared	289	-		
Hound eared	292			
Long eared	146, 292	313	172	380
Mud	278, 437	311	169	379
Ocean	368			
Red bellied	292			
River	292			
Rock	282			
Spagnum			171	
Spotted	146, 280			
Spotted fin	282			
Spotted finned	280			
Sunny	295			
Surgeon	356	330		
fishes	355			
Sur mullets	326			
Swell fish	364			
Sword fish	204, 248	284	166	
fishes	248			
Synentognathous fishes	203			

T.

tail, Hair	246			
Hard		298		
Triple	313			
Yellow	261			
Tailor	265			
Tails, Triple	313			
Tarpons	90	264		
Tarpum		264		
Tautog	344			386
Ten pounder	91			
pounders	91			
spined stickleback	224			
Tessellated darter	299			
darters	299			
Thimble eyed ling	419, 420			
eye mackerel	239			
Thorn back shark	67			

46 REPORT OF NEW JERSEY STATE MUSEUM.

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
Thread file fish	358	301		
fishes	259	301		
herring	102	301, 266		
herrings	102			
Three spined sticklebacks	227			
Thresher shark	53			
sharks	53			
thumb, Miller's	169			
Tiger sharks	61	255		
Tile fish	340			
fishes	340			
Toad fish	364, 411	343		
fishes	411			
tog, Sea	344	328		
Tom cod	415			391
cods	415			
toms, Mad	171			
Top minnows	196			
Torpedoes		260		
Trigger fish	357	331	182	386
fishes	357, 356			
Triple tail	313			
tailed perch	313			
tails	313			
Tropical morays	124			
Trout	113			
Brook	113, 434			
Brown	434	350		
Ocean	103			
Van Behr	434			
True fishes	82			
Trumpet fish	229	290		
fishes	229			
Trunk fish	360	335		
fishes	229			
tunnies, Great	241	292		
Little	241			
Tunny	241			
Great	241	292		
Turbot, Spotted	390			
Two spined stickleback	225	290		
Typical sharks	59			

U.

Unicorn fish	359
--------------------	-----

V.

Variegated goby	368
Viejas	346
Von Behr trout	434

COMMON NAMES OF FISH.

47

<i>Common Names.</i>	<i>Report of 1905 Page</i>	<i>Report of 1906 Page</i>	<i>Report of 1907 Page</i>	<i>Report of 1908 Page</i>
W.				
Wall eyed pike	439			
pikes	439			
Weak fish	69, 329	321	177	384
fishes	329			
weak, fish, Spotted	331	321		384
Southern			178	
Whip sting ray	77	261		
White bait	213			374
bass	440			
cat fish	166			368
mullet	219	289		
perch	307		175	382
shark	62			
sucker	155			
tailed remora	387			
white bait, Pink				361
Whiting				392
White spotted horse fish		291		
Wind fish	135			
Window light	390		184	389
panes	390	338		
Winter flounder	396			
flounders	396			
Wolf fish	405			
fishes	404, 405			
Wrasse fishes	342			

Y.

Yellow caranx	254			
cat fish	169	278		369
mackerel	254, 256			
ned	146, 298			
perch	298, 307			381
tail	261			
Young shad	135			

INDEX

Of Technical Names of Fish found in the Report of
1905; and in the Supplement of the Reports
of 1906, 1907 and 1908.

	1905 Page	1906 Page	1907 Page	1908 Page
A.				
Abramis chrysoleucas roseus	138	271	146, 149	
crysoleucas	137		141	364
Acantharchus	277, 278, 437			
pomotis	278, 280	311	169	
Acantharcus pomotis	280			
acanthias, Squalus	67, 68, 416		128	
Acanthocottus æneus	373			
mitchilli	373			
octodecim-spinosus	374			
virginianus	374			
Acanthopteri	83, 201, 424	263		
Acanthurus phlobotomus	356			
Achirus	397			
fasciatus	397, 398		185	390
mollis	398			
Acipenser	84, 85			
brevirostris	87			
brevirostrum	85, 86, 87		133	354
oxyrhynchus	86			
sturio	85, 86	263	133, 136	353
sturio oxyrhynchus	86			
Acipenserido	84	263	133	
Actinopteri	50, 82			
acutirostris, Anguilla	121			
adpersus, Ctenolabrus	344			
Tautogolabrus	335, 343, 344		180	
æglefinis, Melanogrammus	417	346		
ægelepinus, Melanogrammus	417			
æglepinus, Malanogrammus	417			
Æuriichthys marinus	166			
æneus, Acanthocottus	373			
Myoxocephalus	373	337		
æstivalis, Clupea	98, 99			
Pomolobus			137	
Agonidae	308, 376			
Ailurichthys marinus	166			
alba-cauda, Eche-neis	387	338		
Albacora thynnus		292, 293	166	

	1905 Page	1906 Page	1907 Page	1908 Page
albicauda, Echeneis	388		183	
Albacora		292, 293		
albidus, Amiurus	167			
Pimeoldus				
albula, Mugil	219, 200			
Alburnellus amœnus	149			
Alburnus amœnus	149			
Alburnus amœmus	149			
alburnus, Menticirrus	336			
Umbrina	338			
Alectis	250, 259	303		
crinitus	259			
alepidotum, Gobiosoma	368			
alepidotus, Gobius	368			
alleterata, Pelamys	241			
Alletterata Gymnosarda	241			
Alopias	53			
vulpes	53		123	
Alopiidæ	51, 53		123	
Alosa	92, 99			
cyanonoton	98			
mattowaca	85			
menhaden	104			
præstabilis	102			
sapidissima	99	265	138	358
teres	93			
tyrannus	98			
alpinus, Salvelinus	434, 435	350		
altus, Priacanthus	313			
Pseudopriacanthus	312			
Alutera	358, 359			
cuspidata	359			
schœpfii	359	335, 334	182	
Ambloplites	436, 437			
pomotis	280			
rupestris	437, 438			
Ameiurus	164, 166, 173, 431	289		
catus	166, 167	368	150	
erebennus	169			
natalis prosthistius	166, 167	279	150	
nebulosus	166, 169, 171, 288	278	150	368
americana, Merone	308		175	
Morone	129, 308		175	
Morrhua	416			
Raia	73			
Stilbe	138			
Tautoga	346			
americanus, Ammodytes	410, 411		186	
Esox	175, 177	280	152, 154	
Hemitripterus	375, 376			
Hippoglossus	393			
Leucosomus	138			
Lophius	426			
Lucius	177			
Luxilus	138			
Menticirrhus	335			
Merganser	398			

	1905 Page	1906 Page	1907 Page	1908 Page
americanus, <i>Odontaspis</i>	53			
<i>Petromyzon</i>	50			
<i>Pleuronectes</i>	396			
<i>Pseudopleuronectes</i>	396		185	
<i>Roccus</i>	308			
<i>Sophius</i>	426			
<i>Squalus</i>	68			
<i>Amiurus albidus</i>	167			
<i>atrarius</i>	171			
<i>dekayi</i>	171			
<i>lynx</i>	167			
<i>natalis</i>	169	278		
<i>prosthistius</i>	168, 169	278		
<i>Ammocætæ</i>			120	
<i>Ammodytes</i>	410			
<i>americanus</i>	410, 411		186	390
<i>Ammodytidæ</i>	398, 409		186	
<i>amœnus</i> , <i>Alburnellus</i>	149			
<i>Alburnus</i>	149			
<i>Minnilus</i>	146			
<i>Notropis</i>	139, 148			
<i>Anacanthini</i>	83, 413			
<i>analostana</i> , <i>Cliola</i>	143			
<i>anolostanus</i> , <i>Hybopsis</i>	143			
<i>Hypsilepis</i>	143			
<i>Notropis</i>	138, 142, 196	272, 273 275, 314	144	
<i>Anarhichadidæ</i>	398, 404			
<i>Anarhichas</i>	405			
<i>lupus</i>	405			
<i>Anarrhichas lupus</i>	405			
<i>Anchovia</i>	108			
<i>brownii</i>	109, 111	267		361
<i>duodecim</i>	109, 111	267		
<i>eurystole</i>	108, 109	267		
<i>mitchilli</i>	109, 110, 112, 214	267	123	
<i>Angelichthys</i>	350, 354			
<i>ciliaris</i>	354	330		
<i>Anguilla</i>	119		120	
<i>acutirostris</i>	121			
<i>chrysypa</i>	119, 193	268	139	
<i>chrysypa</i>	121			
<i>macrocephala</i>	121			
<i>rostra</i>	121			
<i>rostrata</i>	121			
<i>vulgaris</i>	121			
<i>anguillaris</i> , <i>Zoarces</i>	406, 407			
<i>Anguillidæ</i>	118		139	
<i>Anisotremus</i>	318, 319			
<i>virginicus</i>	319			
<i>annularis</i> , <i>Pomotis</i>	436, 437	350		
<i>annulata</i> , <i>Melanura</i>	183			
<i>anoplos</i> , <i>Upsilonphorus</i>	400	342		
<i>Anoplus Astrocopus</i>	402			
<i>Anopheles</i>			120, 163	

	1905 Page	1906 Page	1907 Page	1908 Page
Antennariidæ	424, 426	348		
Antennarius gibbus	427			
variegatus	427			
Apeltes	224, 227, 276			
quadracus	227, 228	290		376
Apeltinæ	224			
Aphododerus sayanus	276	310		
Aphredoderidæ	235, 274	310		
Aphredoderus	275			
sayanus	275, 276			379
Aphrodederus sayanus	276			
Aplodinotinæ	329, 339			
Apodes	83, 118			
Apodontis maculatus	245			
Apomotis cyanellus	291			
ischyrus	291			
obesus	282, 285			
phenax	291			
appendix. Ichthelis	293			
Ichthyomyzon	50			
Ponrotis	293			
Archosargus	321, 323			
probatocephalus	323, 325	320		
arcuatus, Pomacanthus	353, 354	330		
argenteus, Eucinostomus	326			
Gerres	326			
Lepturus	247			
Argentinidæ	94, 114			
Argyrea notata	217			
Argyreiosus capillaris	261			
Argyreus atronasmus	153			
nasutus	151			
argyritis, Hybognathus	129			
argyroleuca, Corvina	333			
argyrophanes, Engraulis	109			
argyrops, Stenotomus	323			
Pagrus	323			
arenosus, Stenotomus	323			
Aspidophoroides	377			
monopterygius	377			
Asterospondyli	51			
Astroscopus	399			
anoplus	402			
guttatus	399, 401, 402	341		
græcum	399			
Atherinidæ	212	288	164	
Atherinopsis notatus	217			
atlanticus, Tarpon		264		
atrarius, Amiurus	171			
atromaculatus, Semotilus	130, 132, 134	269		
atronasmus, Argyreus	153			
Cyprinus	153			
Rhinichthys	151, 153, 302	275	147	
aurantiacus, Ceratacanthus	359			
auratus, Carassius	430			
Mullus	327			
aureus, Eupomotis	297			
Pomotis	297			

52 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Page	1906 Page	1907 Page	1908 Page
auriga, Dules	310, 311			
Eudulus		317		
auritus, Lepiopomus	293			
Lepomis 146, 279, 282, 292, 293, 299		275	172	
Pomotis	293			
B.				
Bairdiella	329, 332			
chrysuræ	332, 333	322, 323, 324		384
punctata	333			
Balistes	357			
carolinensis	357	331, 332	182	386
Balistidæ	356, 358	331	182	
barracuda, Sphyræna	221	289		
Batoidei	51			
Batrachoididæ	411, 424	343	187	
Batrachoides variegatus	412			
Batrachus tau	412			
Batrachus tau	412			
variegatus	412			
Belone longirostris	205			
truncata	205			
Belonidæ			163	
beryllina cerea, Menidia	215	288	164	
biaculeatus, Gasterosteus	226			
bifrenata, Hermitremia	140			
Hybopsis	140			
Notropis 138, 139, 140, 146		271, 272	142	365
biguttata, Emys		243		
bilinearis Merluccius	422		188	
birostris, Manta	80, 82			
bispinosus, Gasterosteus	225	290		
blackfordii, Lutianus	315			
Lutjanis	317			
Benniidæ	398, 402	343		
Blennius	402, 403			
fucorum	403	343		
Blepharis		301, 303		
Blepharichthys crinitus	259	304		
Blepharis crinitus		301		
Bodianus triourus	314			
Boleichthys	297, 302			
fusiforme	304		175	
fusiformis	279, 302			
Boleosoma	297, 299			
fusiforme	304			
olmstedii	302			
nigrum olmstedii	299	314	174	381
bonasus, Rhinoptera	79	263	132	
borealis, Sphyræna 221, 222, 223				
bosci, Gobiosoma	386	337		
bostoniensis, Catostomus	158			
Bothus maculatus	392			
Brama	127, 135			
crysolencas	288			
crysoleucas 135, 146, 193, 279, 282		269		
crysoleucas versicolor 135, 138		271		

	1905 Page	1906 Page	1907 Page	1908 Page
brama, Cyprinus	135			
brasiliensis, Hemiramphus		286, 288		
brevirostris, Acipenser	87			
Huso	87			
brevirostrum, Acipenser	85, 86, 87		133	
Brevoortia	56, 92, 103			
menhaden	104			
tyrannus	103, 104	266	139	360
broccus, Canthorinus	358			
Brosme	421			
Brosmius	422			
Brosme	414, 421			
brosme	422			
Brosminæ	414			
Brosmius brosme	422			
browni, Stolephorus	110			
brownii, Anchovia	109, 111	267		
Bryttus chætodon	288			
obesus	284			
punctatus	282			
bullaris, Cyprinus	132			
Semotilus	130, 132	268	140	363
Butorides virescens	196			

C.

cæruleus, Carcharias	63			
cæruleus, Ctenolabrus	344			
Squalus	63			
callarias, Gadus	416	344	187	
camelinus, Tetrasomus	360			
canada, Elacate	268			
canadus, Rachycentron	267	307		
canis, Cynais	60, 66	254, 255	124	
Galeus	60			
Mustelus	60			
Canthorinus broccus	358			
massachusettsensis	358			
segnifer	358			
capillaris, Argyreiosus	261			
Capriscus fuliginosus	357			
caprodes, Percina	299			
Carangidæ	235, 247, 265	298	166	
Caranginae	250			
Carangus hippos	255			
Caranx	250, 254			
chrysos	255, 258			
crysos	254, 256			
hippos	254, 255			
latus	254, 258			
Carassius	429, 430			
auratus	430			
Carcharhinus	59, 61, 65			
milberti	61, 62, 66	256	127	
obscurus	61, 62	256	124, 127	

	1905 Page	1906 Page	1907 Page	1908 Page
Carcharias	52	254		
caeruleus	63			
littoralis	52	254	121, 123	352
obscurus	62			
Carchariidæ	51	254	121	
carinatus, Molacanthus	369			
carolina, Lichia	264			
carolinensis, Balistes	357	331, 332	182	
Capriscus	357			
Cynoscion	332			
Halatractus	253			
carolinus, Prionotus	380, 382		183	389
Trachinotus	214, 262, 263, 337	307	167	378
Trachynotus	264	307		
carpio, Cyprinus	430		147	367
carpiodes, Cyprinus	164			
cataractæ, Rhinichthys	149, 150	275		
Catostomatidæ	125, 154	276	147	367
Catostomus	145, 155			
bostoniensis	158			
commersoni	158			
commersonii	158			
commersonnii	155, 162	367		
communis	158			
gibbosus	163			
Hylomyzon nigricans	159			
macrolepidotus	163			
nigricans	155, 158	276		
teres	158			
catus, Ameiurus	166		150	368
Aniurus	167			
Caudina	95			
Centrarchidæ	235, 276, 436		168	370
Centrarchinæ	436			
Centrarchus pomotis	280			
Centrolophidæ	235, 271	308		
Centropristes	305, 308	308		
furvus	310			
nigrescens	310			
nigricans	310			
straitus	308, 310, 335	316	176	383
centroura, Dasybatus	76	253, 261		
centrurus, Dasyatis	77		131	
cepediana, Megalops	108			
cepedianum, Dorosoma	105, 108			
Dorysoma	108			
Cephalacanthidæ	379, 383			
Cephalacanthus	384			
volitans	384, 385			
Cephaloptera giorna	81, 82			
vampyrus	82			
cephalus, Mugil	218, 219			
Ceratacanthus aurantiacus	359			
Ceratoptera vampyrus	82			
Cestracion	64			
subarcuatus	66			

	1905 Page	1906 Page	1907 Page	1908 Page
Cestracion tiburo	64, 65	257		
zygæna	64, 65	257		
Cestraciontidae	51, 64	257	127	
Cetorhinidae	51, 57			
Cetorhinus	57			
maximus	57, 59			
Chænobryttus phenax	291			
Chænopsetta ocellaris	395			
Chætodipterus	348			
Chætodipterus	348			
faber	348	328		
Chætodon	350			
chætodon, Bryttus	288			
Mesogonistius	146, 148, 285, 288		172	
Pomotis	287, 288			
Chætodon maculocinctus	351			
ocellatus	350	329		
striatus	350, 351	330		
Chætodontidae	347, 350, 355			
Chætodontinae	350	329		
chalybæa, Cliola	148			
chalybæus, Notropis	139, 145, 148, 282, 288	273	141, 145 149, 150	364, 366
abbotti, Notropis	139, 146, 147, 162	123, 270	146	
Chamæleonticeps Lopholatilus	340			
chantenay, Raia	73, 75			
chrysoleucas roseus, Abramis	138			
Chatæssus insociabilis	107, 108			
signifer	103			
Chilomycterus	365, 366			
fuliginosus	368			
geometricus	368			
schoepffi	367			388
schoepfi	366			
Chloroscombrinæ	251			
Chloroscombrus	251, 261			
chrysurus	261			
Chondrostei	83, 84			
Chrondrostomatinae	126			
chrisypa, Anguilla	119, 193		139	
chomis, Pogonias	339			
chrysoleucus, Notemigonus	137			
chrysops, Roccus	440	253		
Stenotomus	321, 322			177
chrysopteron, Hæmulon	320			
chrysopterus, Orthoprists	319, 320	317	176	
chrysos, Caranx	255, 258			
chrysura, Bairdella	332, 333	322, 323, 324		
chrysurus, Chloroscombrus	261			
chrysypa, Anguilla	121	268		
chuss, Phycis	418, 420, 421			
ciliariis, Angelichthys	354	336		
Holacanthus	355			
Zeus		304		
Zoarces	407			
Citharichthys microstomus	393			
Clininæ	402			

	1905 Page	1906 Page	1907 Page	1908 Page
<i>Clinostomus funduloides</i>	134, 135			
<i>margarita</i>	135			
<i>Cliola analostana</i>	143			
<i>chalybæa</i>	148			
<i>hudsonia</i>	142			
<i>procne</i>	141			
<i>storeriana</i>	142			
<i>Clupanodon</i>	92, 102			
<i>oglinum</i>	102	266		
<i>thrissa</i>	103			
<i>Clupea</i>	92, 93			
<i>æstivalis</i>	98, 99			
<i>elongata</i>	93			
<i>harengus</i>	93			
<i>mediocris</i>	95, 98			
<i>pseudoharengus</i>	97			
<i>sadina</i>	93			
<i>sapidissima</i>	101			
<i>Clupeidæ</i>	90, 92	364	136	
<i>Clupeinæ</i>	92			
<i>Clupeoidea</i>	90			
<i>Cœmieus, Pœcilichthys</i>	304			
<i>colias, Scomber</i>	237, 239, 240	390	166	
<i>Colocephali</i>	118			
<i>comarus, Cypselurus</i>	211			
<i>commersoni, Catostomus</i>	158			
<i>commersonii, Catostomus</i>	158			
<i>Commersonnii, Catostomus</i>	155, 162			
<i>communis, Catostomus</i>	158			
<i>complantus, Unio</i>	129			
<i>conger, Conger</i>	123			
<i>occidentalis</i>	123			
<i>Conger, Conger</i>	123			
<i>Leptocephalus</i>	122			
<i>Congrammus</i>		343		
<i>cornubica, Lamna</i>	56	254		
<i>cornutus, Hypsilepis</i>	145			
<i>Luxilus</i>	145			
<i>Minnilus</i>	145			
<i>Notropis</i>	139, 143	271, 272, 273	145	
<i>corporalis, Cyprinus</i>	132			
<i>Semotilus</i>	132, 134			
<i>Corvina argyroleuca</i>	333			
<i>Coryphæna</i>	273			
<i>hippurus</i>	273, 274			
<i>leseurii</i>	274			
<i>Coryphænidæ</i>	235, 272			
<i>Cottidæ</i>	369, 371			
<i>Cottinæ</i>	372	336		
<i>Cottus gracilis</i>	373			
<i>meridionalis</i>		336		
<i>octodecimspinosus</i>	374			
<i>Craniomi</i>	202, 379			
<i>crassus, Lepidosteus</i>	89			
<i>crinitus, Alectis</i>	259			
<i>Blepharichthys</i>	259	304		
<i>Blepharis</i>		301		
<i>cromis, Pogonias</i>	338, 339	326	180	385

TECHNICAL NAMES OF FISH.

57

	1905 Page	1906 Page	1907 Page	1908 Page
crysoleucas, Abramis	137		141	364, 365
Brama 135, 146, 193, 279, 282, 288		269, 275		
roseus, Abramis		271		
versicolor, Brama	135, 138	271		
crysos, Caranx	254, 256			
Ctenolabrus adspersus	344			
ceruleus	344			
curema, Mugil 218, 219, 220		283, 289	165	375
cuspidata, Alutera	359			
cyanellus, Apomotis	291			
cyanonoton, Alosa	98			
Pomolobus	94, 98			
Cybiu maculatum	245			
Cyclopteridæ	369, 371			
Cyclopterus	378			
lumpus	378, 379			
Cyclospodyli	51			
Cyclostomes	48			
Cynais	59, 60			
canis	60, 66	254	124	
Cynoscion	69, 329			
carolinensis	332			
maculatus	332			
nebulosus	329, 331		178	384
regalis 329, 331, 332		321	123, 177	384
Cyprinidæ	125, 429		140	362
Cyprinodon 184, 188, 198			141, 161	
ovinus	201			
parvus	198			
variegatus	198, 201	283, 289	157	
Cyprinodontinæ	184			
Cyprinus	429, 430			
atronsus	153			
brama	135			
bullaris	132			
Cyprinus carpio	430		147	367
corporalis	132			
cyprinus, Capiodes	164			
Cyselurus	211			
comatus	211			
fercatus	212			
furcatus	211	288		
heterurus	211			

D.

Dactylopterus volitans	283	343		
Dasyatidæ				353
Dasybatidæ	51, 75	261	131	
Dasybatus 72, 75, 76			131	
centroura	76	253, 261	131	
centrurus	77			
hastata	76, 77	261		
say 76, 77		261	132	
Decapterus	250, 254			
punctatus	254			

	1905 Page	1906 Page	1907 Page	1908 Page
dekayi, <i>Amiurus</i>	171			
<i>Isuropsis</i>	55			
<i>Pygosteus</i>	225			
<i>Scomber</i>	245			
dentatus, <i>Paralichthys</i>	393, 395		184	
<i>Desmognathus fusca</i>	183			395
diaphanes, <i>Raia</i>	73			
diaphanus, <i>Fundulus</i> 184, 193, 196, 279, 288		271, 272	156	372, 373
diaphanus, <i>Fundulus</i>	(273, 282, 283, 284, 298)		1907 report.	
<i>Diodon fuliginosus</i>	368			
<i>maculo-striatus</i>	367			
<i>pilosus</i>	366			
<i>Diodontidæ</i>	361, 365	336		
<i>Diplectrum formosum</i>	318			
<i>Discocephali</i>	202, 386			
dolomieii, <i>Micropterus</i>	438			
dolomieu, <i>Micropterus</i>	438			
<i>Dorosoma</i>	105			
<i>cepedianum</i>	105; 108			360
<i>Dorosomatidæ</i>	90, 105			
<i>Dorysoma cepedianum</i>	108			
ductor, <i>Naucrates</i>	251			
<i>Dules</i>	305, 310			
<i>auriga</i>	310, 311			
dumerili lalandi, <i>Seriola</i>	253			
duodecim, <i>Anchovia</i>	109, 111	268		
<i>Engraulis</i>	112			
<i>Dussumieriinæ</i>	92			

E.

<i>Echeneididæ</i>	387	338	183
<i>Echeneis</i>	387		
<i>alba-cauda</i>	387	338	183
<i>albicauda</i>	388		
<i>naucrates</i>	388		
<i>remora</i>	389		
eglantiera, <i>Raia</i>	73	359	131
<i>Raja</i>	70, 72, 73		
<i>Elacate canada</i>	268		
<i>niger</i>	268		
<i>Elasmobranchii</i>	50		
elephas, <i>Squalus</i>	59		
elongata, <i>Clupea</i>	93		
<i>Elopidæ</i>	90	204	
<i>Elops</i>	91		
<i>saurus</i>	91		
emarginatus, <i>Lobotes</i>	317		
<i>Neomænis</i>	317		
<i>Enchelycephali</i>	118		
<i>Engraulididæ</i>	90, 109	267	361
<i>Engraulis argyrophanes</i>	109		
<i>duodecim</i>	112		
<i>vittata</i>	110		

TECHNICAL NAMES OF FISH.

59

	1905 Page	1906 Page	1907 Page	1908 Page
Enneacanthus	276, 277, 280, 294		151	
gloriosus	146, 193, 280, 284, 288	312	170	380
guttatus	282			
margarotis	282			
obesus	279, 280, 282, 285	123, 312	171	
simulans	282			
Ephippus faber	349			
gigas	349			
Epinephelinæ	305, 308			
Epinephelus	305			
erythrogaster	308			
morio	308			
moris	308			
erebennus, Ameiurus	169			
Erimyzon	155, 159, 193, 276		147	
oblongus	163			
sucetta	163			
sucetta oblingus	146, 159, 279, 282	123, 276, 277	147	367
erinaceus, Raja	70, 71	257	128	
erochrous, Hololepis	304			
Pœcilichthys	304			
erythrogaster, Epinephelus	308	268		
Esocidæ	174, 435	280, 350	152	370
Esox	175, 276, 435			
americanus	175, 177	280	152, 154	370
fasciatus	177			
masquinongy	435	350		
porosus	177			
reticulatus	175, 177, 179	280	153	370
umbrosus	177			
vermiculatus	177			
Etheostomatinae	297			
Etropus	390, 392			
microstomus	392, 393	339		
Etrumeus	92, 93			
sadina	93			
teres	93	264		
Eucinostomus argenteus	326			
gula	325	321		
Euleptorhamphus	208, 209			
Eudulus auriga		317		
Euleptorhamphus velox	209	288		
Eupomotis	193, 278, 295			
aureus	297			
gibbosus	282, 295, 299	289, 313	161, 172	380
eurystole, Anchovia	108, 109	267		
Stolephorus	109			
Eventognathi	83, 125			
evolans strigatus, Prionotus	380, 382	337	183	
Exocætidæ	203, 210	288		
Exocætus heterurus	211			
noveboracensis	211			
Exoglossinæ	127			
Exoglossum	127, 154			
maxillingua	154			

	1905 Page	1906 Page	1907 Page	1908 Page
F.				
faber, Chaetodipterus	348	228		
Ephippus	349			
falcatus, Trachinotus	262	306		
fario, Salmo	433, 434	350		
fasciatus, Achirus	397, 398			
Esox	177			
Pogonias	339			
Felichthys	164, 165			
marinus	165	368		
felis, Hexanemachthys	166			
fercatus, Cypselurus	212			
ferruginea, Limanda	395	341	185	
Myzopsetta	395			
Fistularia	229			
tabacaria	229	290		377
tabaccaria	230			
Fistulariidae	223, 228	290		377
flavescens, Perca	146, 288, 298, 299		174	
flavula, Hardrargira	188			
Hydrargyra	193			
fætens, Synodus	117, 118			
fontinalis, Salmo	114			
Salvelinus	113			
formosa, Heterandria		163		
Perca	318			
formosum, Diplectrum	318			
Hæmulon	319			
freminvillii, Myliobatis	79	262, 263		
fucorum, Blennius	403			
fuliginosus, Chilomycterus	368			
Diodon	368			
fulvo-maculatus, Orthopristis	320			
Fundulinæ	184			
funduloides, Clinostomus	134, 135			
Squalius	135			
Fundulus	121, 184, 188, 198, 276	270	141	
diaphanus	184, 193, 196, 379, 288	271, 272	156	372, 373
	(273, 282, 283, 284, 289 all in 1907 report.)			
heteroclitus	193			
heteroclitus macrolepidotus	184, 188, 196, 201	282, 283	155	372
		284, 289		
luciæ	197			
majalis	184, 185, 188	281, 283, 298	155	372
multifasciatus	196			
nigrofasciatus	193			
zebra	193			
furcatus, Cyselurus	211			
furvus, Centropristes	310			
fusca, Desmognathus	183			
fuscum, Siphostoma	232			
Syngnathus	231	290	165	377
fusiforme, Boleichthys	304			
Boleosoma	304			
Hololepis	304			
Pæcilichthys	304			

TECHNICAL NAMES OF FISH.

61

	1905 Page	1906 Page	1907 Page	1908 Page
fusiformis, Boleichthys	279, 302		175	
G.				
Gadidæ	413	344	187	391
Gadinæ	413	254		
Gadus	414, 416			
callarias	416	344	187	
monhua	416			
morrhua	416			
Galeichthys marinus	166			
Galeidæ	51, 59		124	
Galeinæ	59	354		
Galeocерdo tigrinus		226, 255	124	
Galeus	59, 61	253, 255		
canis	69			
tigrinus	61		124	
gallus, Selene	261	303		
Gambusia	198		162, 163, 164, 173	
gracilis			158	
Ganoidei	83			
Gasterosteidæ	223, 229	290		375
Gasterosteinae	224			
Gasterosteus	224, 225			
aculeatus				375
biaculeatus	226	290		
bispinosus	225	290		
noveboracensis	226			
quadracus	228			
Gastrophysus turgidus	365			
geminatus, Hypleurochilus	403	343		
geometricus, Chilomycterus	368			
Gerres argenteus	326			
Gerridæ	236, 325	321		
gibba, Pterophryne	426, 427	253		
gibbosus, Antennarius	427			
Catostomus	163			
Eupomotis	282, 295, 299	289, 313	161, 172	380
Lepomis	296			
gigas, Ephippus	349			
giorna, Cephaloptera	81, 82			
glaucus, Isuropsis	55, 56			
gladius, Tylosurus	206			
Niphias	248, 249		166	
gloriosus, Enneacanthus	193, 146, 280, 284, 288	312	170	380
Gobiidæ	385			
Gobioidei	202			
Gobiosoma	386			
alepidotum	386			
bosci	386	337		
Gobius alepidotus	386			
gracilis, Cottus	373			
viscosa, Uranidea	372	336		
Grammichthys lineatus	398			
griseus, Lutianus	315, 316, 317			
grex, Scomber	240			

62 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Page	1906 Page	1907 Page	1908 Page
Gronias			151	
gula, Eucinostomus	325	321		
gunnellus, Pholis	404			
guttatus, Astroscopus	399, 401, 402	341		
Enneacanthus	282			
Percopsis	274			
Upsilonphorus	402			
Uranoscopus	402			
Gymnodontes	202, 361			
Gymnosarda alletterata	241			
Gymnothorax	124			
ocellatus	124			
Gyrinidæ	132			
gyrinus, Noturus	172			
Schilbeodes	171, 172, 173	279	151	

H.

Hæmulidæ	236, 317	317	176	
Hæmulon	318			
chrysopteron	320			
* formosum	319			
plumieri	318			
Halatractus carolinensis	253			
Haplodoci	202, 411			
Haplomi	83, 174, 203			
Hardrargira flavula	188			
Hardrargyra majalis	188			
harengus, Clupea	93			
Harpuridæ	347, 355			
Harpurus	356	330		
hepatus	356			
hastata, Dasybatus	76, 77			
Pastinaca	77			
Trygon	77			
Hemibranchii	201, 223			
Hemiramphidæ	203, 207	286		
Hermirampus brasiliensis		286, 288		
macrorhynchus	210			
roberti	209			
Hemitripterinæ	372			
Hemitripterus	372, 375			
americanus	375, 376			
Hemitremia bifrenata	140			
hepatus, Harpurus	356			
heptagonus, Hippocampus	234	330		
Heterandria formosa			163	
heteroclitus, Fundulus	193			
macrolepidotus, Fundulus	184, 188, 196, 201	283, 284, 289	155	372
Heterosomata	202, 389			
heterurus, Cypselurus	211			
Exocætus	211			
hexacanthus, Pomoxys	437			
Hexanematichthys felis	166			

TECHNICAL NAMES OF FISH.

63

	<i>Page</i> 1905	<i>Page</i> 1906	<i>Page</i> 1907	<i>Page</i> 1908
Hippocampus	231, 233			
heptagonus	234			
hudsonius	233, 234	291	165	
punctulatus	233, 234	291		
Hippoglossus	390, 393			
americanus	393			
hippoglossus	393			
hippos, Carangus	255			
Caranx	254, 255			
Paratractus	255			
hippurus, Coryphæna	273, 274			
hispidus, Monacanthus	358			
Stephanolepis	358	333, 334		
histrio, Pteropphryne	426, 427	348		
Holacanthus ciliaris	355			
Hololepis crochrous	304			
fusiforme	304			
hudsonia, Cliola	142			
hudsonius, Alburnops	142			
Hippocampus	233, 234	291	165	
Hybopsis	141			
hudsonius amarus, Notropis	128, 138, 141	271		
Huso brevirostris	87			
Hybognathus	126, 127			
argyritis	129			
nitidus	129			
nuchalis	128, 129			
nuchalis regius	127, 129	362		
osmerinus	128, 129			
regius	128, 129			
Hybopsis	127, 153			
analostanus	143			
bifrenatus	140			
hudsonius	141			
kentuckiensis	153	276		
phænna	141			
procne	140			
Hyborhynchus notatus	129			
Hydrargyra flavula	193			
luciæ	196			
swampina	196			
Hylomyzon nigricans	158			
Hypentelium nigricans	159			
Hypleurochilus	402, 403			
geminatus	403	343		
Hyporhamphus	208			
unifasciatus	208		374	
Hypsilepsis analostanus	143			
cornutus	145			
kentuckiensis	143			

I.

Ichthelis appendix	293
incisor	294
rubricauda	293
Ichthyomyzon appendix	50

	<i>Page</i> 1905	<i>Page</i> 1906	<i>Page</i> 1907	<i>Page</i> 1908
Ictalurinae	164			
Ictalurus	431			
punctatus	431	349		
Ichthaelurus punctatus	431			
Ilarchidæ	347	328		
incisor, Ichthelis	294			
Pomotis	294			
Iniomi	90			
insignis Schilbeodes	171, 172, 173			
insociabilis, Chatæssus	107, 108			
ischyrus, Apomotis	291			
Isognatha oceanica	123			
Isospondyli	83, 90			
Istiophoridae		294		
Isuropsis dekayi	55			
glaucus	55, 56			
Isurus	54			
dekayi	54, 56			

J.

Jugulares	202, 398	261		
jamaicensis, Urolophus	76			

K.

kentuckiensis, Hybopsis	153	276		
Hypsilepis	143			
Kirtlandia	213, 214			
vagrans laciniata	213	288		

L.

Labrax lineatus	307	315		
mucronatus	308			
Labrus palladus	294			
tautaga	346			
Labridæ	342, 346	328	180	386
laciniata, Menidia	214			
Lactophrys	360			
trigonus	360	335		387
lacustris, Ameiurus	431	349		
lævigatus, Lagocephalus	362, 364			
lævis, Raia	75	259		
Raja	70, 73	259		
Lagocephalus	362			
lævigatus	362, 364			388
Lagodon	321, 323			
rhomboides	323	320		383
lalani, Seriola	251, 253	298, 300	167	
Lamna	54, 56			
cornubica	56	254		
punctata	55			
Lamnidae	51, 54	254		
Larus argentatus	196			
Latilidæ	236, 339			
latus, Caranx	254, 258			

TECHNICAL NAMES OF FISH.

65

	<i>Page</i> 1905	<i>Page</i> 1906	<i>Page</i> 1907	<i>Page</i> 1908
Lesiostomus	69, 329, 334			
obliquus	335			
xanthurus	334, 335	324	179	385
Leirus perciformis	272			
Lepidosteidæ	87			
Lepidosteus carassus	89			
Lepiopomus auritus	293	324		
Lepominae	436, 437			
Lepomis	193, 278, 289			
auritus	146, 279, 282, 289, 292, 293, 299	275	172	380
gibbosus	296			
palladus	289, 294			
pallidus	294, 289, 290			
phenax	289, 291	312, 313		
Lentiginosus, Botaurus	196			
Leptocephalidæ	118, 121			
Leptocephalus	122			
conger	122			362
Lepturus argenteus	247			
lepturus, Trichiurus	247			
leseurii, Coryphæna	274			
Leuciscinæ	126, 134			
Leuciscus	127, 134, 148			
margarita	134, 135	269		
spirilingulus	145			
vandoisulus	134, 135			
Leucosomus americanus	138			
rhotheus	130, 132			
Lichia spinosa	263, 264			
Limanda	390, 395			
ferruginea	395	341	185	
limi, Melanura	183			
Umbra	183			
lineatus, Grammichthys	398			
Labrax	307			
Mugil	219			
Roccus	306, 307		175	382
Liostomus obliquus	335			
xanthurus	335			
littoralis, Carcharias	52	121, 123		
Lobotes emarginatus	317			
surinamensis	313, 314			
Lobotidæ	236, 313			
longipinnis, Peprilus	270			
longirostris, Belone	205			
Lophiidæ	424	348	188	392
Lophius	425, 426			
americanus	426			
piscatorius	425	348	189	392
Lophobranchii	201, 230			
Lopholatilus	340			
chamæleonticeps	340			
Lophosetta	390, 391		184	
maculata	390, 392	338	184	389
Lota	414, 417			
maculosa	417, 418			
Lotinæ	414			

	<i>Page</i> 1905	<i>Page</i> 1906	<i>Page</i> 1907	<i>Page</i> 1908
Lucania	184, 188, 197, 198		161, 164	
parva	197, 198	283	157	
luciæ, Fundulus	197			
Hydrargyra	196			
Zygonectes	196			
lucias, Micristius	196			
Lucioperca vitrea	439			
Lucius americanus	177			
reticulatus	180			
lumpus, Cyclopterus	378, 379			
lupus, Anarchichas	405			
Anarrhichas	405			
Lutianidæ	236, 315	317		
Lutianus	315			
blackfordii	315			
griseus	315, 316	317		
Lutjanus blackfordii	317			
griseus	317			
Luxilus americanus	138			
cornutus	145			
lynx, Amiurus	167			

M.

macrocephala, Anguilla	121			
macrolepidota, Myxostoma	164			
macrolepidotum, Moxostoma	163			
Myxostoma	164			
macrolepidotus, Catostomus	163			
Teretribus	164			
Teretulus	164			
macrorhynchus, Hemirhamphus	210			
maculata, Lophopsetta	390, 393	338	184	389
Sophopsetta	391			
Spheroides		336	182	388
maculatum, Cybium	245			
maculatus, Apodontis	245			
Bothus	392			
Cynoscion	332			
Orbidus	365			
Pleuronectes	392			
Rhombus	391			
Scomberomorus	244, 245			
Spheroides	364	336	182	388
maculocinctus, Chætodon	351			
maculosa, Lota	417, 418			
maculo-striatus, Diodon	367			
majalis, Fundulus	184, 185, 188	281, 283, 289	155	372
Hardrargyra	188			
malleus, Zygæna	66			
manatia, Manta	82			
Manta	80			
birostris	80, 82			
manatia	82			
margarita, Clinostomus	135			
Leuciscus	134, 135	269		

	<i>Page</i> 1905	<i>Page</i> 1906	<i>Page</i> 1907	<i>Page</i> 1908
margotis, <i>Enneacanthus</i>	282			
marginata, <i>Rissola</i>	408			
marginata, <i>Ophidion</i>	409			
<i>Ophidium</i>	409			
marinus, <i>Ælurichthys</i>	166			
<i>Ailurichthys</i>	166			
<i>Felichthys</i>	165			368
<i>Galeichthys</i>	166			
<i>Petromyzon</i>	48, 49, 50		120	351
<i>Sebastes</i>	370			
<i>Tylosurus</i>	204, 205	284, 285	163	373
masquinongy, <i>Esox</i>	435	350		
massachusettsensis, <i>Canthorinus</i>	358			
Mastacembelidæ	203	284	163	
mattawaca, <i>Alosa</i>	95			
mattawocca, <i>Melatta</i>	95			
maximus, <i>Getorhinus</i>	57, 59			
mediocris, <i>Clupea</i>	95, 98			
<i>Pomolobus</i>	94, 95	264	136	355
Megalops cepediana	108			
Melanogrammus	414, 417			
<i>ægletinis</i>	417	346		
<i>æglepinus</i>	417			
Melanura annulata	183			
<i>limi</i>	183			
<i>pygmæa</i>	183			
Melatta mattowocca	95			
menhaden, <i>Alosa</i>	104			
<i>Brevoortia</i>	104			
Menidia	198, 213, 214, 215			
<i>beryllina cerea</i>	215	288	164	
<i>laciniata</i>	214			
<i>menidia notata</i>	188, 193, 214, 216, 337	283, 289	164	374
<i>notata</i>	217	217		
mendia notata, <i>Menidia</i>	216, 337			
Mentiarrhus nebulosus	338			
Menticirrhus	329, 335			
<i>americanus</i>	335			
<i>saxatilis</i>	214, 335, 336, 337	325	179	385
Menticirrus alburnus	336			
<i>saxatilis</i>	337			
Merganser americanus	398			
meridionalis, <i>Cottus</i>		336		
Merlangus purpureus	415			
Merlucciidæ	413, 422		188	
Merluccius	422			
<i>bilinearis</i>	422		188	392
Merlucius vulgaris	424			
Merone americana	308			
Mesogonistius	277, 284, 285			
<i>chætodon</i>	146, 148, 285, 288	123	172	
mexicanus, <i>Saurus</i>	118			
Micristius lucias	197			
Microgadus	414, 415			
<i>tomcod</i>	415		187	391
<i>tomcodus</i>	416			

68 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Page	1906 Page	1907 Page	1908 Page
Micropogon		324		
undulatus		325	179	
Microperca punctulata	304			
Micropteridæ	436, 438		168	
Micropterus	436, 438			
dolomieu	438			381
microstomus, Citharichthys	393			
Etropus	392, 393	339		
milberti, Carcharhinus	61, 62, 66	256	127	
Minnilus amœnus	149			
cornutus	145			
mitschilli, Acanthocottus	373			
Anchovia	109, 110, 112, 114	267	123	
Stolephorus	111			
Mobulidæ	51, 80			
Mola	368			
mola	368	336	183	
Molacanthus carinatus	369			
mola, Mola	368	336	183	
Orthagoriscus	369			
Molidæ	361, 368	336	183	
molis, Achirus	398			
Monacanthidæ	361, 368	333	182	
Monacanthus hispidus	358			
monhua, Gadus	416			
Monopterygius, Aspidophoroides	377			
mordax, Osmerus	115, 116			
morio, Epinephelus	308			
moris, Epinephelus	308			
Morone	193, 305, 307			
americana	129, 308	315	175	382
Moroninæ	305			
Morrhua americana	416	315		
morrhua, Gadus	416			
Moxostoma	155, 163			
macrolepidotum	163			
oblongum	163			
mucronatus, Labrax	308			
Murænoides	404			
Mugil	218			366
albula	219, 220			
cephalus	218, 219			
curema	218, 219, 220	283, 289	165	375
lineatus	219			
petrosus	219			
plumievi	219			
Mugilidæ	212, 217	289	164	375
Mullidæ	327			
Mullus	327			
auratus	327			
surmuletus auratus	327			
multifasciatus, Fundulus	196			
Murænidæ	118, 123			
Murænoides mucronatus	404			
Mustelinæ	59			
Mustelus canis	60			
Myliobatidæ	51, 75	262	132	

	1905 Page	1906 Page	1907 Page	1908 Page
Myliobatis	78, 79			
freminvillii	79	262, 263		
Myoxocephalus	372, 373			
æneus	373	337		389
octodecimspinosus	373			
Myxostoma macrolepidota	164			
macrolepidotum	164			
Myzopsetta ferruginea	395			
N.				
nasutus, Argyreus	151			
Rhinichthys	151			
natalis, Amiurus	169			
natalis prosthistius, Ameiurus	166, 167	278	150	
Naucrates	250, 251			
ductor	251			
naucrates, Echeneis	388			
nebulosa, Percina	299			
nebulosus, Ameiurus	166, 169, 171, 288	278	150	
Cynoscion	329, 331		178	
Mentiarrhus	338			
Nematognathi	83, 117, 164			
Neomænis emarginatus	317			
niger, Elacate	268			
nigrescens, Centropristes	310			
nigricans, Catostomus	155, 158	276		
Catostomus Hylomyzon	159			
Centropristes	310			
Hylomyzon	159			
Hypentelium	159			
Petromyzon	50			
nigrofasciatus, Fundulus	193			
nigrum olmstedii, Boleosoma	299	314		381
Nomeidæ		308		
nitidus, Hybognathus	129			
norvegicus, Sebastes	370			
notata, Argyrea	217			
Menidia	217			
Menidia menidia				374
notatus, Atherinopsis	217			
Hyborhynchus	129			
Pimephales	129	268		
Notemigonus chrysoleucus	137			
Notropis	127, 138, 149, 279			
amœnus	139, 148			
analostanus	138, 142, 196	272, 273, 275	144	
		314		
bifrenatus	138, 139, 140, 146	271, 272, 273	142	365
chalybæus	139, 145, 148, 282, 288	273	141, 154	364, 366
			149, 150	
chalybæus abbotti	139, 146, 147, 162	123, 270	146	
cornutus	139, 143	271, 272, 273	145	
hudsonius amarus	128, 138, 141	271	144	365
procne	138, 141		142	
whippilii analostanus				366
Noturus gyrinus	172			

70 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Page	1906 Page	1907 Page	1908 Page
noveboracensis, <i>Exocoetus</i>	211			
<i>Gasterosteus</i>	226			
nuchalis, <i>Hybognathus</i>	128, 129			
regius, <i>Hybognathus</i>	127, 129			362
O.				
obesus, <i>Apomotis</i>	282, 285			
<i>Bryttus</i>	284			
<i>Enneacanthus</i>	279, 280, 282, 285	312	171	
<i>Pomotis</i>	284			
obliquus, <i>Leiostomus</i>	335	324		
<i>Liostomus</i>	335			
oblongum, <i>Moxostoma</i>	163			
oblongus, <i>Erimyzon</i>	163			
<i>Erimyzon sucetta</i>			147	367
obscurus, <i>Carcharhinus</i>	61, 62	256	124, 127	
<i>Carcharias</i>	62			
<i>Squalus</i>	62			
occidentalis, <i>Conger</i>	123			
<i>Pygosteus</i>	225			
<i>Tetronarce</i>		253, 260		
oceanica, <i>Isognatha</i>	123			
ocellaris, <i>Chænopsetta</i>	395			
<i>Platessa</i>	395			
ocellata, <i>Raja</i>	70, 71	259	129	
<i>Sciaena</i>	333			
ocellatus, <i>Chætodon</i>	350	329		
<i>Gymnothorax</i>	124			
<i>Sciaenops</i>	60, 333	324	179	
octodecim-spinosus, <i>Acanthocottus</i>	374			
octodecimspinosus, <i>Cottus</i>	374			
<i>Myoxocephalus</i>	373			
<i>Odontaspis americanus</i>	53			
oglinum, <i>Clupanodon</i>	102			
<i>Opisthonema</i>	103			
olmstedii, <i>Boleosoma</i>	302			
<i>Boleosoma nigrum</i>			174	381
<i>Oncorhynchus</i>	432			
<i>tschawytscha</i>	432			
onitis, <i>Tautoga</i>	344, 346	328	181	386
<i>Ophidiidæ</i>	398, 407		185	390
<i>Ophidium marginatum</i>	409			
<i>Opisthonema oglinum</i>	103			
<i>Opsanus</i>	411			
<i>tau</i>	411	283, 343	187	391
<i>Orbidus maculatus</i>	365			
<i>Orthagoriscus mola</i>	369			
<i>Orthopristis</i>	318, 319			
<i>chrysopterus</i>	319, 320	317	176	
<i>fulvo-maculatus</i>	320			
osmerinus, <i>Hybognathus</i>	128, 129			
<i>Osmerius</i>	115, 116			
<i>mordax</i>	115, 116			361
<i>sergenti</i>	116			
<i>viridescens</i>	116			

TECHNICAL NAMES OF FISH.

71

	1905 Page	1906 Page	1907 Page	1908 Page
osseus, Psallisostomus	89	263		
Ostraciidæ	360	335		387
Ostracodermi	202, 360			
Otolithinæ	329			
Otolithus regalis	331			
ovicephalus, Sargus	325			
ovinus, Cyprinodon	201			
ovis, Sargus..		321		
oxyrhynchus, Acipenser	86			
oxyrinchus, Acipenser	86			
P.				
Pagrus argyrops	323			
Palinurichthys	272			
perciformis	272	308, 310	168	
Pakemonetes vulgaris			161	
palladus, Laprus	294			
Lepomis	289, 290, 294			
pallidus, Lepomis	294			
palmipes, Prionotus	382			
Paralichthys	390, 393			
dentatus	393, 395	341	184	389
Paratractus hippos	255			
Pareioplitæ	202, 369, 379			
paru, Seserinus	269			
parva, Lucania	197, 198	283	157	
parvus, Cyprinodon	198			
Pastinaca hastata	77			
peckianus, Synganthus	232			
pectinatus, Pristis	69			
Pediculati	83, 424			
Pelamys	237, 241			
alleterata	241			
sarda	244			
Peprilus longipinnis	270			
triacanthus	271			
Perca	297, 298			
flavescens	146, 288, 298, 299		174	381
formosa	318			
Percesoces	201, 203, 212			
Percidæ	236, 297, 439		174	381
perciformis, Leirus	272			
Palinurichthys	272	308, 310	168	
Percina	297, 299			
caprodes	299			
nebulosa	299			
Percinæ	297			
Percoidea	235			
Percomorphi	202, 235			
Percopsis guttatus	274			
Petromyzon	48			
americanus	50			
marinus	48		120	351
nigricans	50			
Petromyzonidæ	48		120	351
petrosus, Mugil	219			
phænna, Hybopsis	141			
Pharyngognathi	202, 342			

	1905 Page	1906 Page	1907 Page	1908 Page
phenax, Apomotis	291			
Chænobryttus	291			
Lepomis	289, 291	312		
phlobotomus, Acanthurus	356			
Pholis	402, 404			
gunnellus	404			
Phycinæ	414			
Phycis	414, 418			
chuss	418, 419, 420			
regius	418		187	392
tenuis	418, 419, 420			
piliatus, Prionotus	382			
pilosus, Diodon	366			
Trichodiodon	366	336		
Pimelodus albidus	167			
Pimephales	126, 128, 129			
notatus	129	268		
piscatorius, Lophius	425	348	189	
Pisces	50			
plana, Platessa	396			
Platessa ocellaris	395			
plana	396			
Plectognathi	347			
Pleuronectidæ	389	338	184	393
Pleuronectes maculatus	392			
plumieri, Hæmulon	318			
plumieue, Mugil	219			
pneumatophorus, Scomber	240			
Pæcilichthys cæmieus	304			
erochrous	304			
fusiforme	304			
Pæciliidæ	174, 183	281, 141, 155		372
Pollachius	413, 414			
virens	414, 415	344		
Pogonias	329, 338	324		
chromis	339	326	180	385
cromis	338, 339			385
fasciatus	339			
Pomacanthinæ	350			
Pomatomidæ	235, 264	307	167	378
Pomatomus	265			
saltatrix	265, 266		167	378
Pomolobus	92, 93, 94, 193			
æstivalis			137	357
cyanonoton	94, 98			
mediocris	94, 95	264	136	355
pseudoharengus	94, 95, 98	265	136	355
pomotis, Acantharchus	278, 280	311	169	379*
Acantharchus	280			
Centrarchus	280			
Pomotis appendix	293			
aureus	297			
auritus	293			
chætodon	287, 288			
incisor	294			

TECHNICAL NAMES OF FISH.

73

	1905 Page	1906 Page	1907 Page	1908 Page
Pomotis obesus	284			
Pomoxis	436			
annularis	436, 437	350		
hexacanthus	437			
sparoides	437		168	379
Pomoxys sparoides	437			
Poronotus	269, 270			
triacanthus	270, 271	307		379
porosus, Esox	177			
præstabilis, Alosa	102			
Priacanthidæ	236, 311			
Priacanthus altus	313			
Prionotis	380			352
carolinus	380, 382		183	389
evolans strigatus	380, 382	337	183	
palmipes	382			
piliatus	382			
strigatus	383			
Pristidæ	51, 68			
Pristis	69			
pectinatus	69			
probatocephalus, Archosargus	323, 325	320	177	383
procne, Cliola	141			
Hybopsis	140			
Notropis	138, 140		142	
prosthistius, Amiurus	168, 169			
Psallisostomatidæ	87, 88	263		
Psallisostomus	89			
osseus	89	263		
pseudoharengus, Clupea	97			
Pomolobus	94, 95, 98		136	355
Pseudopleuronectes	390, 396			
americanus	396		185	
Pseudopriacanthus	312			
altus	312			
Pterophryne	426			
gibba	426, 427	253		
histrion	426, 427	348		
punctata, Bairdiella	333			
Lamna	55			
punctatus, Bryttus	282			
Decapterus	254			
Ichthælorus	431			
Ictalurus	431	349		
punctulata, Hippocampus	233, 234	291		
Microperca	304			
pungitius, Pygosteus	224	290		
purpureus, Merlangus	415			
pygmæa, Melanura	183			
Umbra	180, 183, 193, 282	281	154	371
Pygosteus	224			
dekayi	225			
occidentalis	225			
pungitius	224	290		

74 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Page	1906 Page	1907 Page	1908 Page
Q.				
quadracus, Apeltes	227, 228	290		376
Gasterosteus	228			
quadriloba, Raia	80			
Rhinoptera	80			
R.				
Rachycentridæ	235, 267	307		
Rachycentron	267			
canadus	267	307		
radiata, Raja	73			
Raia americana	73			
chantenay	73			
diaphanes	73, 75			
eglantiera	73			
lævis	75			
quadriloba	80			
Raja	70			
eglanteria	70, 72, 73	259	131	352
erinacea	70	257	128	
erinaceus	71			
lævis	70, 73	259		353
ocellata	70, 71	259	129	
radiata	73			
say	78			
Rajidæ	51, 69	257	128	352
raphidoma, Tylosurus	204, 205	284, 286		
regalis, Cynoscion	331, 332, 329	321	123, 177	382
Otolithus	331			
Scomberomorus	244, 246			
Umbrina	338			
regius, Hybognathus	128, 129			
Phycis	418		187	392
remoth, Echeneis	389			
Remora	387, 388	338	184	
Reniceps tiburo	65			
reticulatus, Esox	175, 177, 179	280	153	370
Lucius	180			
Rhinichthys	127, 149			
atronasus	149, 151, 153, 302	275, 276	147	
cataractæ	149, 150	275		
nasutus	151			
Rhinoptera	78, 79			
bonasus	79	263	132	
quadriloba	80			
Rhomboganoidea	83, 87			
rhomboides, Lagodon	323	320		383
Trachynotus	263			
Rhombus maculatus	391			
rhotheus, Leucosomus	130, 132			
Semotilus	132			
Rissola	408			
marginata	408		184	390
roberti, Hemirhamphus	209			

TECHNICAL NAMES OF FISH.

75

	1905 Page	1906 Page	1907 Page	1908 Page
Roccus	305, 306, 440			
americanus	308			
chrysops	440	253		
lineatus	306, 307	314	175	382
rostra, Anguilla	121			
rostrata, Anguilla	121			
rubicauda, Ichthelis	293			
rupestris, Ambloplites	437, 438			
S.				
sadina, Clupea	93			
Etrumeus	93			
salar, Salmo	433, 434			
sebago, Salmo	433, 434			
Salmo	432, 433			
fario	433, 434	350		
fontinalis	114			
salar	433, 434		139	
salar sebago	433, 434			
salmoides, Micropterus	438, 439		174	
Salmonidæ	90, 112, 113, 114, 432	350	139	
Salmonoidea	90			
saltator, Temnodon	266			
saltatrix, Pomatomus	265, 266		167	378
Salvelinus	113, 432, 434			
alpinus	434, 435	350		
fontinalis	113			
sapidissima, Alosa	99	265	138	358
Clupea	101			
Sarda	237, 242			
Sarda, Pelamys	244			
Sarda	242, 244	294	166	
Sargassum	427			
Sargus ovicephalus	325			
Saurus mexicanus	118			
saurus, Elops	91			
Scombresox	207			
saxatilis, Menticirrihus	214, 335, 336, 337	325	179	385
Menticirus	337			
say, Dasybatus	76, 77	261	132	
Raja	78			
sayanus, Aphoboderus	276			
Aphredoderus	275, 276	310		379
Aphrodederus	276			
sayii, Trygon	77			
Scaridæ	342, 346			
Schilbeodes	164, 171			
gyrinus	171, 172, 173	279	151	
insignis	171, 172, 173			
schœpfi, Chilomycterus	367			
schœpfi, Chilomycterus	266			388
scœpfi, Alutera	359	334, 335	182	
Sciæna ocellata	333			
Sciænidae	236, 328	321	177	384
Sciæninae	329			
Sciænops	329, 333			352
ocellatus	60, 333	324	178	384
Sclerodermi	202, 356			

	1905 Page	1906 Page	1907 Page	1908 Page
Scoliodon	59, 63			
terræ-novæ	63	257		
Scomber	237			
colias	237, 239, 240	291	166	
dekayi	245			
grex	240			
pneumatophorus	240			
scombrus	237, 238	291	165	
vernalis	238			
Scomberomorus	237, 244			
maculatus	244, 245			
regalis	244, 246			
Scombresocidæ	203, 206			
Scombresox	207			
saurus	207			
scutellatus	207			
Scombridæ	207, 235, 236, 250			
Scombroidei	235			
scombrus, Scomber	237, 238	291		
Scorpænidæ	369, 370			
scutellatus, Scombresox	207			
Sebastes	370			
marinus	370			
norvegicus	371			
segnifer, Canthorinus	358			
Selene	251, 260			
gallus	261			
vomer	260, 261	306	167	378
Semotilus	127, 130			
atromaculatus	130, 132, 134	268		
bullaris	130, 132	268	140	
corporalis	132, 134			
rhotheus	132			
sergenti, Osmerus	116			
Seriola	250, 251			
dumerili lalandi	253			
lalandi	251, 253	298, 300	167	
zonata	251, 253	298	166	377
Seriolinæ	250			
Serranidæ	236, 304, 318, 440		175	382
Serraninæ	305			
serrantus, Solenostomus	230			
Seserinus	269			
paru	269			
setapinnis, Vomer	259, 304, 305, 332		167	
setipinnis, Vomer	259			
signifer, Chatæssus	103			
Siluridæ	164, 431	278, 349	150	368
simulans, Enneacanthus	282			
Siphostoma fuscum	323			
Soleidæ	389, 396		185	390
Solenostomus serratus	230			
tabacarius	230			
Sophius americanus	426			
Sophopsetta maculata	391			
Sparidæ	236, 320, 349	320	177	383

TECHNICAL NAMES OF FISH.

77

	1905 Page	1906 Page	1907 Page	1908 Page
Sparisoma	346, 347			
sparoides, Pomoxis	436, 437		168	379
Pomoxys	437			
Spheroides	362, 364			
maculatus	364	336	182	388
testudineus			182	
Sphyræna	221			
barracuda	221	289		
borealis	221, 222, 223			
Sphyrænidae	212, 220			
Sphyrna zygena	66		127	352
spinosa, Lichia	263			
spinous, Trachynotus	263			
sprilingulus, Leuciscus	145			
Squalidæ	51, 66		128	
Squalius funduloides	135			
Squalus	67			
acanthias	67, 68, 416		128	
americanus	68			
cæruleus	63			
elephas	59			
obscurus	62			
Squamipennes	202, 347			
Stenotomus	321			
arenosus	323			
argyrops	323			
chrysops	321, 322		177	383
Stephanolepis	358			
hispidus	358	333, 334		
Stilbe aremica	138			
Stizostedion	439			
vitreum	439			
Stizostedium vitreum	439			
Stolephorus browni	110			
eurystole	109			
Stolephorus mitchilli	111			
storeriana, Cliola	142			
striatus, Chætodon	350, 351	329		
Centropriestis	308, 310, 335	316	176	383
strigatus, Prionotus	383			
Stromateidæ	235, 269, 271	307	168	379
Stromateus tricanthus	271			
sturio, Acipenser	85, 86	263	133, 136	353
sturio oxyrinchus, Acipenser	86			
subarcuatus, Cestracion	66			
sucetta, Erimyzon	163			
oblongus, Erimyzon	146, 159, 279, 282	123, 276, 277		367
surinamensis, Lobotes	313, 314			
surmuletus auratus, Mullus	327			
swampina, Hydrargyra	196			
Synentognathi	201, 203			
Syngnathidæ	230	290	165	377
Syngnathus	231			
fuscus	231	290	165	377
peckianus	232			
viridescens	232			

	1905 Page	1906 Page	1907 Page	1908 Page
Synodontidæ	90, 116			
Synodus	117			
foetens	117, 118			

T.

tabacaria, Fistularia	229	290		377
tabaccaria, Fistularia	230			
tabacarius, Solenostomus	230			
Tachysurinæ	164			
Tarpon		264		
atlanticus		264		
tau, Batrachus	412			
Batrachus	412			
Opsanus	411	264	187	391
Tautoga	343, 344			386
americana	346			
onitis	344, 346	328	181	386
tautoga, Labrus	346			
Tautogolabrus	343			
adspersus	335, 343, 344		180	386
Tectospondyli	51			
Teleostei	83			
Temnodon saltator	266			
tenuirostris, Anguilla	121			
tenius, Phycis	418, 419, 420			
teres, Alosa	93			
Catostomus	158			
Etrumeus	93	264		
Teretulus macrolepidotus	104			
terræ-novæ, Scoliodon	63	257		
Tetraodon turgidus	365			
Tetrasomus camelinus	360			
Tetrodon turgidus	365			
Tetrodontidæ	361	336	182	388
Tetronarce occidentalis		253, 260		
Teuthididæ		330		
Teuthis		330		
hepatus		330		
Tholichthys	350			
thrissa, Clupanodon	103			
Thunnis	237			
Thunnus thynnus	241, 242			
thynnus, Thunnus	241, 242			
Albacora		292, 293	166	
tiburo, Cestracion	64, 65	257		
Reniceps	65			
Zygæna	65			
tigrinus, Galeus	61			
tomcod, Microgadus	415		187	
tomcodus, Microgadus	416			391
torpedinus, Urolophus	76			
Trachinotinæ	251			
Trachinotus	56, 214, 251, 262			
carolinus	214, 262, 263, 337	307	167	378
falcatus	263	306		

	1905 Page	1906 Page	1907 Page	1908 Page
Trachynotus carolinus	264			
rhomboides	263			
spinosus	263			
Trachurops		300		
crumenophthalmus		301		
triacanthus, Peprilus	271			
Poronotus	270, 271	307		379
Stromateus	271			
Trichiuridæ	235, 246			377
Trichiurus	247			
lepturus	247			377
Trichiodon	365, 366			
pilosus	366	336		
Triglidæ	379		183	389
trigonus, Lactophrys	360	335		
triourus, Bodianus	314			
truncata, Belone	205			
Trygon hastata	77			
sayii	77			
tschawytscha, Oncorhynchus	432			
turgidus, Gastrophysus	365			
Tetraodon	365			
Tetrodon	365			
Tylosurus	204			
gladius	206			
marinus	204, 205	284	163	373
raphidoma	204, 205	284, 286		
tyrannus, Alosa	98			
Brevoortia	103, 104			

U.

Umbra	179, 180, 276	151, 170		
limi	183			
pygmæa	180, 183, 193, 282	281	154	371
Umbridæ	174, 180	281	154	371
Umbrina alburnus	338			
nebulosa		326		
regalis	338			
umbrosus, Esox	177			
unifasciatus, Hyporhamphus	208			374
Unio complanatus	128			
Upsilonthorus anoplos	400	342		
guttatus	402			
Uranidea	372			
gracilis		336		
viscosa	372			
Uranoscopidae	398			
Uranoscopus guttatus	402			
Urolophus	75, 76			
jamaicensis	76	261		
torpedinus	76			

	1905 Page	1906 Page	1907 Page	1908 Page
V.				
vagrans laciniata, Kirtlandia.....	213	288		
vandoisulus, Leucisus	134, 135	269		
vampyrus, Cephalopterus	82			
Ceratoptera	82			
variegatus, Antennarius	427			
Batrachoides	42			
Batrachus	201			
Cyprinodon	198, 201	283, 289	157	
velox, Euleptorhamphus	209	288		
vermiculatus, Esox	177			
vernalis, Scomber	238			
virens, Pollachius	414, 415	344		
virescens, Butorides	196			
virginianus, Acanthocottus	374			
virginicus, Anisotremus	319			
viridescens, Osmerus	116			
Syngnathus	232			
vitrea, Lucioperca	439			
vitreum, Stizostedion	439			
Stizostedium	439			
vittata, Engraulis	110			
volitans, Cephalacanthus	384, 385			
Dactylopterus	384			
Vomer	251, 259			
setapinnis	259	304, 305, 332	167	
setipinnis	259			
vomer, Selene	260, 261	306	167	378
vulgaris, Anguilla	121			
Merlucius	424			
Palæmonetes			161	
vulpes, Alopias	53		123	

X.

xanthurus, Leiostomus	334, 335	324	179	385
Liostomus	335			
Xiphias	248			
gladius	248, 249		166	
Xiphiidæ	235, 248	294	166	

Y.

y-graecum, Astroscopus	339	341, 342		
------------------------------	-----	----------	--	--

Z.

zebra, Fundulus	193			
Zeus ciliaris		304		
gallus		303		

	1905	1906	1907	1908
	<i>Page</i>	<i>Page</i>	<i>Page</i>	<i>Page</i>
Zoarces	406			
anguillaris	406, 407			
ciliatus	407			
Zoarcidæ	398, 405			
zonata, <i>Seriola</i>	251, 253	298	166	377
zonatus, <i>Zonichthys</i>	253			
<i>Zonichthys zonatus</i>	253			
zygæna, <i>Cestracion</i>	64, 65	257		
<i>Sphyrna</i>	66		127	
<i>Zygæna malleus</i>	66			
<i>tiburo</i>	65			
<i>Zygonectes</i>	184, 196			
<i>luciæ</i>	196			

INDEX

Of the Common Names of the Amphibians and Reptiles found in the Report for 1906

A.

	PAGE
Adder	184
adder, Copper	188
Deaf	188
Spotted	157, 181, 184
Amphibians	35
amphibians, Leaping	85
Anderson tree toad	108

B.

back, Diamond	230
Rough	243
Trunk	204
Bawling frog	131
Belly bumper	131
belly, Copper	188
Red	243
Yellow	235
back, Speckled	244
Black banded lizard	196
lizards	196, 197
Black snake	167, 168
snakes	167
Black water lizard	74
Blanding's turtle	247
turtles	247
Blind snake	146
Blue racer	167
tailed lizards	195
skinks	194, 195
Bloody nouns	126
Blotched salamander	39
Blower	184
Blowing viper	184
Blunt salamanders	39
Box tortoise	247, 248, 250
turtle	247
box tortoise, Common	247

COMMON NAMES OF AMPHIBIANS AND REPTILES. 83

	PAGE
Broad newt	74
scorpion	198
snake	149, 157
snakes	155
Bull frog	126, 127, 131
snake	170
bull frog, Poison	134
Bully	126, 131
bully, Poison	134
bumper, Belly	131
Burrowing toads	92

C.

Carpenter frog	120
Carpet snake	170
Chain snake	178, 179
snakes	178
Chequered terrapin	235
Chunk head	188
Colubrine snakes	144
Common box tortoise	247
lizard	198
snake	175
soft shelled turtle	211, 212
toad	86
tree toad	112
Copper adder	188
belly	188
head	188
head snake	188, 190
snake	188
viper	188
Cricket frog	99, 100
toads	99
cricket frogs, Savanna	99
cricket, Savanna	99

D.

Dapple salamander	55
Deaf adder	188
De Kay's brown snake	155, 158
snake	157
Diamond back	230
terrapin	230, 231
digger, Mud	220
Dusky salamander	74, 75
salamanders	74

E.

evet, Red	79
-----------------	----

	PAGE
F.	
Fence lizard	198
foot, Spade	92
Four-toed salamander	52
salamanders	52
Fresh water terrapin	243
frog, Bawling	131
Bull	126, 127, 131
Carpenter	120
Cricket	99, 100
Grass	134
Green	131
Leopard	115, 116
Marsh	134
Pickerel	134, 135
Poison	134
Poison bull	134
Shad	115
Sphagnum	120
Spring	115, 131
Tiger	134
Tree	112
True	115
Wood	138, 139
Yellow leg	134
Yellow throated green	131
Zebra	134
Frogs	114

G.	
Garter snake	173, 175, 176
snakes	172
garter snake, Slender	173
Spotted	179
Giant salamanders	36
Grass frog	134
Gray salamander	55
Green frog	131
snake	163, 164
snakes	164
turtle	209
turtles	209
green frog, Yellow throated	131
Ground snake	146
snakes	146
head, Chunk	188
Copper	188
Logger	215
Hellbender	37, 38
Hellbenders	37
Hermit spade foot toad	92
toad	92
Hissing viper	184
Hog nose snake	184, 185
snakes	184
Hop toad	86

COMMON NAMES OF AMPHIBIANS AND REPTILES. 85

	PAGE
Horned snake	170
House snake	181, 182, 183
I.	
Iguanas	198
J.	
Jefferson's salamander	50, 51
Jog-o-rum	126
K.	
King snake	178
Kirtland snake	159, 160, 161
snakes	159
L.	
Land tortoise	247
Leaping amphibians	85
Leather snake	148
snakes	148
turtle	204
turtles	203, 214
legs, Yellow	134
Leopard frog	115, 116
lined lizard, Five	195
Lizards	193
lizards, Black banded	197, 196
Blue tailed	195
Pine tree	178
lizard, Black banded	196
Black water	74
Common	198
Fence	198
Five lined	195
Pine	198
Pine tree	198, 199
Red	69, 79
Small red	79
Spring	69
Water	79
Yellow bellied	79
Logger head	215
turtle	207, 208, 215
turtles	206
Long tailed salamander	66, 67
tailed salamanders	63
M.	
Map turtle	228, 229
Marbled salamander	39
Marsh frog	134
terrapin, Salt	230
tortoise, Salt	230
turtle, Salt	230
turtle	230

	PAGE
mate, Rattlesnake's	188
Milk snake	181
Moccasin	149
moccasin, Water	149
Mud digger	220
turtle	220, 221, 222, 223, 240
turtles	220
Muhlenberg's terrapin	240
turtle	240
Musk tortoise	223
turtle	220, 223, 224
turtles	219, 223

N.

Nail turtle	223
Newt	79, 80, 82
Brown	74
Water	79
Newts	79
nouns. Bloody	126

P.

Painted terrapin	235, 236, 237
turtle	235
Peep	104
Peeper	99, 104
Pickerel frog	134, 135
Pickering's tree toad	104, 105
Pilot black snake	152
snake	152, 153
snakes	152
Pine lizard	189
snake	170, 171
snakes	170
tree lizard	198, 199
tree lizards	198
Poison bull frog	134
bully	134
frog	134
Pond turtle	244
turtles	227
pond turtle, Stinky	223
Porphyritic salamander	62
pot, Skill	232
Stink	223
Stinky	223
Potter	232
Puffer	336
Purple salamander	62
salamanders	62

COMMON NAMES OF AMPHIBIANS AND REPTILES. 87

	PAGE
R.	
Racer	167
racer, Blue	167
White throated	167
Rattler	99, 191
Rattle snake	191, 192
snakes	188, 191
snake's mate	188
Red backed salamander	51, 55
backed salamanders	51
bellied snake	156
bellied terrapin	232
bellied turtle	232
bellied turtles	232
belly	243
eft	79
evet	79
lizard	69, 79
salamander	69, 70, 72
triton	69
Reptiles	142
Ribband snake	173
Ribbon snake	173
Ring necked salamander	44
snake	165, 166
snakes	165
Rough backed turtle	243

S.

salamander, Blotched	39
Blue spotted	59
Dapple	55
Dusky	74, 75
Four toed	52
Gray	55
Jefferson's	50, 51
Long tailed	66, 67
Marbled	39
Porphyritic	62
Purple	62
Red	69, 70, 72
Red backed	55
Ring necked	44
Speckled	44
Spotted	42, 43
Sticky	59
Tiger	47
Two lined	63
Yellow	74
Salamanders	36
Blunt nosed	38
Dusky	74
Four toed	52
Giant	36
Long Tailed	63

	PAGE
salamanders Purple	62
Red backed	51
Shiny	55, 59
Salt marsh terrapin	230
tortoise	230
turtle	230
Savana cricket	99
Savana cricket frog	99
Scorpion	195
scorpion, Brown	198
Sea turtle	204, 207
Serpents	143
Shad frog	115
Skill pot	232
Skink	195
skink, Blue tailed	195
Skinks	194
Skinks, Blue tiled	194, 195
Slender garter snake	173
Slider	232
Slimy salamanders	55, 59
Small red lizard	79
Snake	173, 175
snake, Black	167, 168
Blind	146
Brown	149, 157
Bull	170
Carpet	170
Chain	178, 179
Common	175
Copper	188
Copper head	188, 190
De Kay's	157, 158
Garter	173, 175, 176
Green	162, 164
Ground	146
Hog nose	184
Hog nosed	184, 185
Horned	170
House	181, 182, 183
King	178
Kirtland	159, 160, 161
Leather	148
Milk	181
Pilot	152, 153
Pilot black	152
Pine	170, 171
Rattle	191, 192
Red bellied	156
Ribband	173
Ribbon	173
Ring necked	165, 166
Slender garter	173
Spotted	157

COMMON NAMES OF AMPHIBIANS AND REPTILES. 89

	PAGE
snake. Spotted garter	178
Striped	175
Summer	162
Thunder	178
Thunder and lightning	178
Water	179
Wampum	179
Worm	146
Yellow bellied water	148
snakes. Black	167
Brown	155
Chain	178
Colubrine	144
Garter	172
Green	164
Ground	146
Hog nosed	184
Kirtland	159
Leather	148
Pilot	152
Pine	170
Rattle	188, 191
Ring necked	165
Summer	162
Water	149
Snapper	215, 217
snapper. Gray	217
Snapping turtle	215, 217
turtles	214, 215
soft shelled turtle, Common	211, 212
Soft shelled turtles	210, 211
Spade foot	92
foot toad	92, 96
spade foot toad, Hermit	92
Speckled back	244
salamander	44
terrapin	244
tortoise	244
Sphagnum frog	120
Spotted adder	157, 181, 184
garter snake	178
salamander	42, 43
snake	157
terrapin	244, 245
tortoise	244
triton	79
spotted tortoise, Yellow	244
Spring frog	115, 131
lizard	69
Sticky salamander	59
Stinking turtle	223
Stink pot	223
Stinky pond turtle	223
pot	223
turtle	223

	PAGE
Summer snake	162
snakes	162
Swamp tree toad	97, 98
toads	97
Swift	198

T.

tail, Blue	195
terrapin, Chequered	235
Diamond back	230, 231
Fresh water	243
Muhlenberg's	240
Painted	235, 236, 237
Red bellied	232
Salt marsh	230
Speckled	244
Spotted	244, 245
Yellow bellied	235
Yellow spotted	244
Tessellated turtle	314
Thunder and lightning snake	178
snake	178
Tiger frog	134
salamander	47
triton	47
Toad	86, 87
toad, Anderson tree	108
Common	86
Common tree	112
Hermit	92
Hermit spade foot	92
Hop	86
Pickering's tree	104, 105
Spade foot	92, 96
Swamp	97, 98
Swamp tree	97, 98
Tree	112
Toads	85
toads, Burrowing	92
Cricket	99
Swamp tree	97
Tree	97
True	86
True tree	104
Tortoise	247
tortoise, Box	247, 248, 250
Common box	247
Land	247
Musk	223
Salt Marsh	230
Speckled	244
Spotted	244
Wood	243
tortoises, Wood	239

COMMON NAMES OF AMPHIBIANS AND REPTILES. 91

	PAGE
Tree frog	112
toad	112
toads	97
tree lizard, Pine	198, 199
tree lizards, Pine	198
tree toad, Anderson's	108
Common	112
Pickering's	104, 105
tree toads, Swamp	97
True	104
triton, Red	69
Spotted	79
Tiger	47
True frogs	115
toads	86
tree toads	104
Trunk back	204
Turtle	207, 247
turtle, Blanding's	247
Box	247
Common soft shelled	211, 212
Green	209
Leather	204
Logger head	207, 208, 215
Map	228, 229
Marsh	230
Mud	220, 221, 222, 223, 240
Muhlenberg's	240
Musk	220, 223, 224
Nail	223
Painted	235
Pond	244
Red bellied	232
Rough backed	243
Salt marsh	230
Sea	204, 207
Snapping	215, 217
Stinking	223
Stinky	223
Stinky pond	223
Turtles	202
turtles, Blanding's	247
Green	209
Leather	203, 204
Logger Head	206, 207
Map	228
Mud	220
Musk	219, 223
Pond	227
Red bellied	232
Snapping	214, 215
Soft shelled	210, 211
Two lined salamander	63

	PAGE
V.	
viper, Blowing	184
Copper	188
Hissing	184
W.	
Wamper	178
Wampum snake	178
water lizard, Black	196, 197
Water lizard	79
moccasin	149
newt	79
snake	149, 150
snakes	149
water snake, Yellow bellied	148
White throated racer	167
Wood frog	138, 139
tortoise	243
tortoises	239
Worm snake	146
Y.	
Yellow bellied lizard	79
terrapiu	235
water snake	148
Yellow belly	235
leg frog	134
legs	134
salamander	74
spotted terrapiu	244
throated green frog	131
Z.	
Zebra frog	134

INDEX

Of the Technical Names of Amphibians and Reptiles found in the Report of 1906, 1907 and 1908

	1906 Page	1907 Page	1908 Page
A.			
Acris	97, 99	180	
gryllus	103, 107		
gryllus crepitans	99, 110, 103, 119		
Æstivus, Coluber	163		
Cyclophis	163		
Leptophis	163		
Opheodrys	162, 163	196	
Agama undulata	201		
Agkistrodon	188		
contorting	191		
contortrix	188, 190, 191		405
alleganensis, Cryptobranchus	37		
alleghaniensis, Menapoma	38		
amæna, Carphophiops	184		
amænus Brachyorrhos	147		
Carphophiops	146, 147		
Coluber	147		
Amblystoma bicolor	46		
consperum	44		
jeffersonianum	51		
opacum	41		393
punctatum	44		
tigrinum	50		
Ambystoma	38		
bicolor	39, 44, 46		
consperum	39, 44		
jeffersonianum	39, 50, 51		
opacum	38, 39, 41		
punctatum	39, 42, 43		
tigrinum	39, 47, 50	190	
Ambystomatidæ	36, 38	190	393
americanus, Bufo	92		395
amœna, Carphophiops	147		
Amphibia	35		
Amyda mutica	209		

94 REPORT OF NEW JERSEY STATE MUSEUM.

	1906 Page	1907 Page	1908 Page
andersoni, Hyla	112	193	397
andersonii, Hyla	34, 104, 108, 111		
Arcifera	85		
Aromochelys	226		
odorata	226		
Aspidonectes	211		
spinifer	210, 211, 212, 213		
atra, Caretta	209		
Chelonia	209		
Atromaculatus, Semotilus	269		

B.

Bascanion	145, 167		
constrictor	167, 168, 169	196	
bicolor, Ambystoma	39, 44, 46		
Amblystoma	46		
bis-lineata, Salamandra	66		
bislineata, Salamandra	66		
bislineatus, Spelerpes	63, 64, 66, 73, 78		394
blandingi, Emydoidea	247		
boiquira, Crotalus	193		
boscii, Terrapene	226		
Brachyorrhos amænus	147		
Bufo	85		
americanus	85	191	395
fowleri		192	
lentiginosus	85, 87, 91	191	
americanus	91		
musicus	92		
Bufonidæ	85	191	395

C.

Calemys muhlenbergii	243	187	
Callopeltis	144, 152		
obsoletus	152, 153		
confinus	154		
Calopeltis obsoletus	155		
Caretta	207, 208	200	
atra	209		
caretta	207, 208	200	
caretta, Caretta	207, 208		
Chelonia	209		
Testudo	209		
Thalassochelys	209		
carolina, Cistuda	250		
Cistudo	250		
Didicla	247, 248	202	
Terrapene	250		
Testido	250		
Carphophiops	146, 147		
amæna	184		
amænus	147, 146		
amœna	147		

TECHNICAL NAMES OF AMPHIBIANS

95

	1906 Page	1907 Page	1908 Page
catesbeiana, Rana	115, 119, 127		400
catesbiana, Rana	130	194	
Caudisona horrida	193		
Cemophora coccinea		199	
centrata concentrica, Malaclemys	230	201	407
Emys	232		
Malaclemys	232		
Malaclemys	230, 231		
Chaetodon Mesogonistius	123		
chalybaeus abbotti, Notropis	123		
Chelonia	206, 209, 210		
atra	209		
caretta	209		
mydas	209, 210		
Chelonura serpentina	218		
Cheloniidae	202, 206	200	406
Chelopus	228, 239, 242		
guttatus	119, 123, 238, 239, 242, 244, 245		
insculptus	239, 243		
muhlenbergi	243		
muhlenbergii	239, 240, 243		
Chelydridæ	215		
serpentina	215, 217, 219	200	406
Chelydridæ	202, 214	200	406
Chorophilus	99		
triseriatus	99		
Chrysemys	228, 235	201	
picta	123, 223, 235, 236, 237, 239, 246		407
cinerea, Salamandra	57, 58, 59		
cinereus cinereus, Plethodon	59		
erythronotus, Plethodon	59		
Plethodon	59		
Plethodon cinereus	59		
Cinosternum pennsylvanicum	223		
Cistuda	250		
carolina	250		
odorata	226		
pennsylvanica	223		
Cistudo carolina	250		
clausa	250		
odorata	226		
pennsylvanica	223		
virginica	250		
clamata, Rana	115, 131, 134		
Clamitans, Rana	134	195	400
clausa, Cistudo	250		
Testudo	250		
Clemmys	242		
guttata	223	202	408
guttatus	247		
insculptus	243	202	408
muhlenbergi	243		
muhlenbergii	243		407
Clemys muhlenbergii	243		
clericus, Lampropeltis doliatus	181		404

	1906 Page	1907 Page	1908 Page
Clonophis	145, 159		
kirtlandi	161		
kirtlandii	159, 160, 161		
Coluber æstivus	163		
amænus	147		
constrictor	169		403
doliatus	184		
eximius	184		
getulus	180		
leberis	149		
melenoleucus	172		
obsoletus confinus	155		
punctatus	167		
saurita	175		
sipedon	152		
sirtalis	177		
vernalis	165		
Colpochelys			406
kempi			406
Colubridæ	143, 144	195	401
concentrica, Malaclemys centrata	230		407
confinus, Callopeltis obsoletus	154		
Coluber obsoletus	155		
conspersum, Amblystoma	44		
Amblystoma	39, 44		
constrictor, Bascanion	167, 168, 169	196	
Coluber	169		403
contorting, Agkistrodon	191		405
contortix, Agkistrodon	188, 190, 191		
Trionocephalus	191		
coriacea, Dermochelys	204, 205		
Sphargis	205		
Testudo	235		
coronata, Dendroica	108		
Coronella getula	180		
crepitans, Acris gryllus	99, 100, 103, 119	192	
Crotalidæ	144, 188		405
boiquira	193		
durissus	193		
horridus	191, 192, 193	199	405
Cryptobranchidæ	36		
Cryptobranchus	37		
alleganiensis	37		
cupreus, Scytalus	191		
Cyclopis æstivus	163		

D.

dekayi, Storeria	155, 157, 158, 159	196	402
Tropodonotus	159		
Dermochelidæ	202, 203		
Dermochelys	204		
coriacea	204, 205		
Desmognathidæ	36, 74		

TECHNICAL NAMES OF AMPHIBIANS

97

	1906 Page	1907 Page	1908 Page
Desmognathus	74		
fusca	58, 59, 66, 72, 74, 75, 79		395
fusca fusca	79		
ochrophæa	65, 66, 78		
ocrophæa	79		
Diadophis	145, 165		
punctatus	165, 166, 167		403
Didicla	228, 247, 250		
carolina	247, 248	202	
Diemictylus	79		
miniatus	82, 84		
viridescens	72, 79, 80, 82	191	395
Diemyctylus viridescens	85		
viridescens viridescens	85		
dipeton, Natrix	152		
dirtalis, Tropidonotus	178		
dioliata, Lampropeltis	184, 147		
doliatus clericus, Lampropeltis	178, 181, 182, 183	197	
Coluber	184		
Lampropeltis	181		
Ophibolus	184		
triangulus, Lampropeltis	178, 180, 181		404
dorsalis, Rana	104		
durissus, Crotalus	193		

E.

Emydidæ	202, 227	201	407
Emydoidea	228, 247		
blandingi	247		
Emys biguttata	243		
centrata	232		
guttata	246		
insculpta	243		
meleagris	247		
muhlenbergii	242		
mulenbergii	242		
odorata	226		
pennsylvanica	223		
picta	239		
punctata	247		
rubriventris	235		
scabra	243		
serrata	235		
terrapin	232		
erythronata, Salamandra	57, 58, 59		
erythronotus, Plethodon	55, 58, 59, 66, 78	190	394
Plethodon cinereus	59		
Eumeces	194, 195		
fasciatus	31, 195, 196		
Eutænia saurita	175		
sirtalis	178		
eximius, Coluber	184		

	1906 Page	1907 Page	1908 Page
F.			
fasciata, Salamandra	41, 42		
sipedon, Natrix	152		
fasciatus, Eumeces	31, 195, 196		
Fermisternia	85		
flavissima, Salamandra	66		
flaviridis, Rana	134		
fontinalis, Rana	134		
fusca, Desmognathus	58, 59, 66, 72, 74, 75, 79		
fusca	79		
Salamandra	78		
fusca, Desmognathus	79		
G.			
geographica, Graptemys	230		
geographicus, Graptemys	228, 229		
getula, Coronella	180		
Lampropeltis	172, 180	197	
getulus, Coluber	180		
Lampropeltis	178, 179		
Glutinosa, Salamandra	62		
glutinosus, Plethodon	55, 59, 60, 62, 63		
Glypemis insculpta	243		
Graptemys	228		
geographica	230		
geographicus	228, 229		
gryllus, Acris	103, 107		
crepitans, Acris	99, 100, 103, 119		
Hylodes	104		
Rana	103		
guttata, Clemmys	223	202	408
Emys	246		
Testudo	242		
guttatus, Chelopus	119, 123, 238, 239, 242, 244, 245		
Clemmys	247		
Gyrinophilus	52, 62		
porphyriticus	62		
H.			
haldemani, Salamandra	65, 78		
halecina, Rana	120		
hariconensis, Rana	134		
hastata, Dasybatus	261		
Hemidactylum	52		
scutatum	52, 55		393
Heterodon	145, 184		
platirrhinos	184, 185, 187		404
platyrhinos	187	198	
platyrhinus	187		
platyrrhinus	187		
holbrookii, Scaphiopus	97		
holbrookii, Scaphiopus	92, 96, 97		
horrida, Caudisoma	193		
horridus, Crotalus	191, 192, 193	199	405

TECHNICAL NAMES OF AMPHIBIANS

99

	1906 Page	1907 Page	1908 Page
Hyla	97, 104, 108, 111		
andersoni	112		
andersonii	34, 104, 108, 111	193	397
pickeringi	108	192	396
pickeringii	103, 104, 105, 108, 114, 133		
versicolor	90, 104, 111, 112, 114		
Hylidæ	85, 97		
Hylodes gryllus	104		
pickeringii	108		

I.

Iguanidæ	194, 198	200	405
insculpta, Emys	243		
Glyptemys	243		
insculptus, Chelopus	239, 243		
Clemmys	243	202	408

J.

jeffersonianum, Amblystoma	51		
Ambystoma	39, 50, 51		

K.

Kinosternidæ	203, 219	201	406
Kinosternon	219, 220, 242		
pennsylvanum	223	201	406
pensylvanicum	220, 221, 222, 246		
kirtlandi, Clonophis	161		
Tropidoclonion	161		
kirtlandii, Clonophis	159, 160, 161		

L.

Lacertilia	143, 193		
Lampropeltis	145, 178		
doliata	147, 184		
doliatus	181		
doliatus clericus	178, 181, 182, 183	197	404
getula	172, 180		404
getulus	178, 179	197	404
triangula	147, 181		
laterale, Liolepisma	198		
Leiolopisma	196, 197		
Lygosoma (Liolepisma)	198		
leberis, Coluber	149		
Regina	148		401
Tropidonotus	148, 149, 175		
Leiolopisma	194, 196		
laterale	196, 197		
lentiginosus americanus, Bufo	91		
Bufo	86, 87, 91	191	
Leptophis æstivus	163		
sauritus	175		
lineata, Salamandra	66		

100 REPORT OF NEW JERSEY STATE MUSEUM.

	1906 Page	1907 Page	1908 Page
<i>Liolepisma laterale</i>	198		
<i>Liopeltis</i>	145, 163, 164		
<i>vernalis</i>	164, 165	196	
<i>longicauda</i> , <i>Salamandra</i>	69		
<i>Spelerpes</i>	63, 66, 67, 69		394
<i>longicaudata</i> , <i>Salamandra</i>	69		
<i>longicaudus</i> , <i>Spelerpes</i>	69		
<i>Lygosoma</i> (<i>Liolepisma</i>) <i>laterale</i>	198		

M.

<i>Malaclemmys centrata</i>	232		
<i>palustris</i>	232		
<i>Malacemys</i>	228, 230		
<i>centrata</i>	230, 231		
<i>centrata concentrica</i>	230	201	
<i>Malacoclemmys palustris</i>	232		
<i>Malacoclemys palustris</i>	232		
<i>mediocris</i> , <i>Pituophis</i>	170, 171, 172		
<i>Pityophis</i>	172		
<i>meleagris</i> , <i>Emys</i>	247		
<i>menapoma alleghannsis</i>	38		
<i>miniatus</i> , <i>Diemictylus</i>	82, 84		
<i>Notophthalmus</i>	85		
<i>muhlenbergi</i> , <i>Chelopus</i>	243		
<i>Clemmys</i>	243		
<i>muhlenbergii</i> , <i>Calemys</i>	243		
<i>Chelopus</i>	239, 240, 243		
<i>Clemmys</i>	243		407
<i>Clemys</i>	243		
<i>Emys</i>	242		
<i>Testudo</i>	242		
<i>muhlenbergii</i> , <i>Emys</i>	242		
<i>musicus</i> , <i>Bufo</i>	92		
<i>mutica</i> , <i>Amyda</i>	209		
<i>mydas</i> , <i>Chelonia</i>	209, 210		
<i>Testudo</i>	210		

N.

<i>Nanemys</i>	247		
<i>fasciata sipedon</i>	125		
<i>Natrix</i>	144, 149		
<i>dipedon</i>	152		
<i>sipedon</i>	119, 130, 148, 149, 150, 152	195	401
<i>neo-caesariensis</i> , <i>Proteus</i>	74		
<i>Notophthalmus miniatus</i>	85		
<i>viridescens</i>	84		
<i>Nuphar</i>	130		
<i>Nymphaea</i>	130		

TECHNICAL NAMES OF AMPHIBIANS

101

	1906 Page	1907 Page	1908 Page
O.			
oblongus, <i>Erimyzon sucetta</i>	123		
obsoletus, <i>Callopeltis</i>	155		
obsoletus confinus, <i>Callopeltis</i>	154		
<i>Coluber</i>	155		
occipito-maculata, <i>Storeria</i>	155, 156		401
ochrophæa, <i>Desmognathus</i>	65, 66, 78		
ocrophæa, <i>Desmognathus</i>	79		
odorata, <i>Aromochelys</i>	226		
<i>Cistuda</i>	226		
<i>Cistudo</i>	226		
<i>Emys</i>	226		
<i>Ozotheca</i>	226		
<i>Terrapene</i>	223, 224	201	
<i>Testudo</i>	226		
odoratus, <i>Sternotherus</i>	226		407
opacum, <i>Ambystoma</i>	38, 39, 41		393
operculata, <i>Siren</i>	73		
operculatus, <i>Spelerpes</i>	73		
Opheodrys	145, 162		
<i>æstivus</i>	162, 163, 165	196	
<i>Ophibolus doliatus</i>	184		
<i>Ophidia</i>	143		
ordinata, <i>Thamnophis sirtalis</i>	178		
ordinatus, <i>Thamnophis sirtalis</i>	172, 178		
<i>Ozotheca odorata</i>	226		

P.

palustris, <i>Malaclemmys</i>	232		
<i>Malacoclemmys</i>	232		
<i>Malacoclemys</i>	232		
<i>Rana</i>	115, 134, 135, 138	195	400
<i>Patychemys rugosa</i>	235		
<i>Pelobatidæ</i>	85, 92		
pennsylvanicum, <i>Cinosternum</i>	223		
<i>Kinosternon</i>	223		301
<i>Thryosternum</i>	223		
pensylvanica, <i>Cistuda</i>	223		
<i>Cistudo</i>	223		
<i>Emys</i>	223		
pensylvanicum, <i>Kinosternon</i>	220, 221, 222, 246		406
pickeringi, <i>Hyla</i>	108		192
pickeringii, <i>Hyla</i>	103, 104, 105, 108, 114, 113		
<i>Hylodes</i>	108		
picta, <i>Chrysemys</i>	123, 223, 235, 236, 237, 239, 246	201	407
<i>Emys</i>	239		
pipiens, <i>Rana</i>	115, 116, 120, 130, 138	193	399
<i>Pituophis</i>	145, 170, 180		
<i>melanoleucus</i>	170, 171, 172	197	
<i>Pityophis melanoleucus</i>	172		
platyrrhinos, <i>Heterodon</i>	184, 185, 187	198	
platyrrhinus, <i>Heterodon</i>	187		404
platyrrhinus, <i>Heterodon</i>	187		

102 REPORT OF NEW JERSEY STATE MUSEUM.

	1906 Page	1907 Page	1908 Page
Plethodon	52, 55		
cinereus	59		
cinereus erthronotus	59		
erythronotus	55, 58, 59, 66, 78	190	394
glutinosus	55, 59, 60, 62, 63		394
Plethodontidæ	36, 51, 74		190
Plethodontinæ	52	184	393
Pleurodelidæ	36, 79	191	393
Plistodon striatus	196		
porphyriticus, Gyrinophilus	62		
Proteus neo-cæsariensis	74		
Pseudacris	97, 99, 111		
triserietus	97, 98		396
Pseudemys	228, 232		
rubriventris	232, 235	201	407
rugosa	235		
Pseudosauria	36		
Pseudotriton ruber	73		
salmonea	63		
Ptychemys rugosa	235		
punctata, Emys	247		
Testudo	242		
punctatum, Amblystoma	44		
Ambystoma	39, 42, 43		
punctatus, Coluber	167		
Diadophis	165, 166, 167		403

Q.

quadrimaculata, Salamandra	78
quinclineatus, Scincus	196

R.

Rana	115		
catesbeiana	115, 119, 127	194	400
catesbiana	130		
clamata	115, 131, 134	195	400
clamitans	134		
dorsalis	104		
flaviviridis	134		
fontinalis	134		
gryllus	103		
halecina	120		
hariconensis	134		
ocellata	108		
palustris	115, 134, 135, 138	195	400
pipiens	115, 116, 120, 130, 138	193	399
sylvatica	115, 138, 139, 142		400
utricularius	120		
virescens	120		399
virescens virescens	120		
virgatipes	32, 115, 120, 122, 126, 133	194	399
Ranidæ	85, 114	193	339

	1906 Page	1907 Page	1908 Page
Regina	144, 148		401
leberis	148		401
Reptilia	142		
ruber, Pseudotriton	73		
Spelerpes	63, 66, 69, 70, 72, 73		395
ruber ruber, Spelerpes	73	190	
rubra, Salamandra	73		
rubriventris, Emys	235		
Pseudemys.	232, 235	201	407
Salamandra	74		
rugosa, Patychemys	235		
Pseudemys	235		
Ptychemys	235		

S.

Salamandra bis-lineata	66		
bislineata	65, 66		
cinerea	57, 58, 59		
erythronota	57, 58, 59		
fasciata	41, 42		
flavissima	66		
fusca	78		
glutinosa	62		
haldemani	65, 78		
longicauda	69		
longicaudata	69		
lineata	66		
maculata	73		
quadrимaculata	78		
rubra	73		
rubriventris	74		
rubra	73		
subfusca	74		
tigrina	50		
Salientia	35, 85		
Salmo rio	350		
salmonea, Pseudotriton	63		
Salmonidæ	350		
saurita, Coluber	175		
Eutænia	175		
Thamnophis	148, 175		
sauritus, Leptophis	175		
Thamnophis	172, 173, 175		403
scabra, Emys	243		
Scaphiopus	92		
holbrooki	97		
holbrookii	92, 96, 97		
solitarius	97		
Sceloporus	198		
undulatus	31, 198, 199, 201	200	405
Scincidæ	194		
Scincus quinquelineatus	196		
Scorpioides, Testudo	242		
scutatum, Hemidactylum	52, 55		
Scytalus cupreus	191		

104 REPORT OF NEW JERSEY STATE MUSEUM.

	1906 Page	1907 Page	1908 Page
serpentina, Chelonura	218		
Chyldra	215, 217, 218	200	406
serrata, Emys	235		
sipedon, Coluber	152		
Natrix	119, 130, 148, 149, 150, 152	195	401
Natrix fasciata	152		
Tropidonotus	152		
Siren operculata	73		
sirtalis, Coluber	177		
Eutænia	178		
Thamnophis	172, 175, 176, 178	197	403
Tropidonotus	178		
sirtalis ordinata, Thamnophis	178		
sirtalis ordinatus, Thamnophis	172, 178		
solitarius, Scaphiopus	97		
Spelerpes	52, 63		
bislineatus	63, 64, 66, 73, 78		
longicauda	63, 66, 67, 69		
longicaudus	69		
operculatus	73		
ruber	63, 66, 69, 70, 72, 73	190	
ruber ruber	73		
Spelerpinæ	52		
Sphargis coriacea	205		
spinfer, Aspidoneste	210, 211, 212, 213		
Sternothærus	250		
odoratus	226		407
trifasciatus	250		
Storeria	145, 155		
dekayi	155, 157, 158, 159	196	402
occipito-maculata	155, 156		
striatus, Plistodon	196		
subfusca, Salamandra	74		
subnigra, Testudo	250		
sylvatica, Rana	115, 138, 139, 142		

T.

Terrapene	220, 223, 226		
boscii	226		
carolina	250		408
odorata	223, 224	201	
terrapin, Emys	232		
Testudinata	143, 202		
Testudo caretta	209		
carolina	250		
clausa	250		
coriacea	235		
guttata	242		
muhlenbergii	242		
mydas	210		
odorata	226		
punctata	242		
scorpioides	242		
subnigra	250		

TECHNICAL NAMES OF AMPHIBIANS

105

	1906 Page	1907 Page	1908 Page
Thalassochelys	209		
caretta	209		
Thamnophis	145, 172		
saurita	148, 175		
sauritus	172, 173, 175		403
sirtalis	172, 175, 176, 178	197	403
sirtalis ordinata	178		
sirtalis ordinatus	172, 178		
Thryosternum pennsylvanicum	223		
tigrina, Salamandra	50		
tigrinum, Amblystoma	50	190	
Amblystoma	39, 47, 50		
tigrinus, Triton	50		
Trematodera	36		
triangula, Lampropeltis	147, 181		
triangulus, Lampropeltis doliatus	178, 180, 181		
trifasciatus, Sternotherus	250		
Trionocephalus contortrix	191		
Trionychidæ	203, 210		
triseriatus, Chorophilus	99		
Pseudacris	97, 98		396
Triton tigrinus	50		
Tropidoclonion kirtlandi	161		
Tropidolepis undulatus	201		
Tropidonotus dekayi	159		
dirtalis	178		
leberis	148, 149, 175		
sipidon	152		
sirtalis	178		

U.

undulata, Agama	201		
undulatus, Sceloporus	31, 198, 199, 201	200	405
Tropidolepis	201		
Urodela	35, 36, 38		
Utricularius, Rana	120		

V.

valeriae, Virginia			402
Vallisneria	84		
vernalis, Coluber	165		
Liopeltis	164, 165	196	

INDEX

Of the Names of Mammals found in the Report of 1907.

	PAGE		PAGE
B.		dolphin, Bottle-nosed	49
Balæna	42	Common	50
Balenoptera	43	Spotted	50
Bats	92	E.	
bat, Georgia	95	Elk	55
Hoary	96	Erethizon	62
Large Brown	94	Evotomys	67
Little Brown	94		
Red	96	F.	
Silver-haired	95	Felidæ	109
bear, Black	106	Fiber	70
Beaver	76, 77	Fisher	100
Blackfish	51	fox, Red	107
Southern	51	Gray	109
Blarina	88		
C.		G.	
Cachalot	45	Glires	58
Caribou	55	Globicephala	51
cat, Wild	110	Grampus	52
Cats	109	Groundhackee	81
Cervidæ	55	Groundhog	78
Cetacea	40		
Chickaree	84	H.	
Chipmunk	81	hare, Belgian	61
Citellus	80	Varying	61
Condylura	92		
Cottontail	59	K.	
Northern	60	Killer	53
Cougar	109	Kogia	46
Cowfish	48, 52		
Cystophora	98	L.	
D.		Lasionycteris	95
Deer	55	Lasiurus	96
Virginia	56	Lepus	59
Delphinus	50		
Didelphis	39		

	PAGE.
Lutra	100
Lynx canadensis	109
ruffus	110

M.

mammals, Flesh-eating	97
Gnawing	58
Hoofed	54
Marmots	78
Marmotta	78
Marsupialia	39
martin, Pine	100
Megaptera	43
Mephitis	102
Mesoplodon	49
Mice	64
Microtus	69
Mink	103
mole, Brewer's	91
Naked-tailed	90
Star-nosed	92
Moles	89
mouse, Deer	74
House	75
Jumping	63, 64
Lemming	66
Meadow	68
Pine	70
Red-backed	67
Rice-field	73
White-footed	74
Mus	75
Muskrat	70
Mustela	100
Myotis	94

N.

Neotoma	72
---------------	----

O.

Odocoileus	56
Opossum	39
Orcinus	53
Oryzomys	73
Otter	100

P.

Parascalops	91
Peromyscus	74
Phoca	99
Phocæna	52
Physeter	45
Pipistrellus	95

	PAGE.
porcupine, Canada	62
porpoise, Common	49
Harbor	52
Porpoises	48
Procyon	105
Prodelphinus	50
Putorius	103

R.

rabbit, Cottontail	59
White	61
Rabbits	59
Raccoon	105
rat, Norway	76
Wood	72
Rorqual	43

S.

Scalops	90
Sciuropterus	85
Sciurus	82
seal, Harbor	99
Harp	99
Hooded	98
Seals	98
shrew, Brown	89
Long-tailed	87
Short-tailed	88
Smoky	87
Shrews	86
Skunk	102
Sorex	87
squirrel, Black	82
Flying	85
Fox	82
Gray	82
Ground	81
Red	84
Striped	81

T.

Tamias	81
Tursiops	49

U.

Ungulata	54
Urocyon	109
Ursus	106

V.

Vespertilio	94
Vulpes	107

	PAGE.		PAGE.
W.			
weasel, Bonaparte's	105	whale Sowerby's	48
New York	104	Sperm	45
whale Black	42	Sulphur-bottom	45
Bottle-nosed	47	Ziphius	47
Cuvier's	47	Wild Cat	110
Finback	43	Woodchuck	78
Great Blue	45		
Hump-backed	43	Z.	
Piked	44	Zapus	63
Pigmy Spérn	45	Ziphius	47

INDEX

Of the Common Names of Birds found in the Report of 1908

	PAGE.		PAGE.
A.		Cardinal	243
auk, Little	46	Catbird	295
Razor-billed	45	Cedarbird	256
Auks	43	chat, Yellow-breasted	289
Avocet	120	Chewink	242
B.		chicadee, Black-capped	306
Baldpate	82	Carolina	306
Bibliography	317	Cobhead	88
Bird Day	23	Cock Robin	79
bittern, Common	99	Coot	116
(Report of 1905, p. 196.)		cormorant, Common	72
Least	100	Double-crested	72
Bitterns	98	Cormorants	72
blackbird, Crow	215	Corn Crake	114
Red-winged	210	Cowbird	209
Rusty	215	crane, Whooping	108
Yellow-headed	210	creeper, Black-and-White	266
Blackbreast	130	Brown	302
Bluebill	87	crossbill, Red	223
Bluebird	315	White-winged	224
Bobolink	208	Crow	205
Bob White	149	Fish	206
Brant	95	Crows	202
Black	96	cuckoo, Black-billed	177
Broadbill	87	Yellow-billed	176
Creek	87	curlew, Eskimo	142
Brown-back	126	Hudsonian	141
Bufflehead	89	Jack	141
Bullhead	143	Long-billed	140
bunting, Black-throated	246	Sickle-billed	140
Indigo	245	D.	
Painted	246	Dickcissel	246
Snow	227	Distribution of Birds	25
Butcher-Bird	257	dove, Ground	155
Butterball	89	Mourning	155
C.		Dovekie	46
Calicoback	147	Dowitcher	126
Canvasback	86	Long-billed	126
(Report of 1905, p. 196.)		duck, Baldpate	82
		Black	80

	PAGE.
gull, Laughing	55
Ring-billed	54
Gulls	49
Gunning	16

H.

hawk, Broad-winged	164
Cooper's	161
Duck	166
Fish	168
Marsh	160
Pigeon	167
Red-shouldered	163
Red-tailed	162
Rough-legged	164
Sharpshinned	161
Sparrow	167
Hawks	158
Heath-Hen	151
Hell-Diver	39
heron, Great Blue	101
(Report of 1905, p. 196.)	
Green	106
(Report of 1905, p. 196.)	
Little Blue	105
Louisiana	105
Night	107
(Report of 1909, p. 196.)	
Snowy	104
White	103
Yellow-crowned Night	108
Hérons	98
hummingbird, Ruby-throated	188

I.

ibis, Glossy	97
White	97
Indigo-bird	245
Introduced Birds	17

J.

jaeger, Long-tailed	49
Parasitic	48
Pomarine	48
Jaegers	47
jay, Blue	203
Junco	238

K.

kingfisher, Belted	177
kinglet, Golden-crowned	308
Ruby-crowned	308
kite, Swallow-tailed	159

	PAGE.
Kittiwake	51
Knot	127

L.

lark, Horned	201
Meadow	212
Prairie Horned	202
Shore	201
Tit	293
Larks	201
Lawyer	121
longspur, Lapland	227
Longtail	89
loon, Common	41
Red-throated	42
Loons	41

M.

Mallard	79
Marlin	133
Ring-tailed	134
martin, Purple	251
Merganser	78
Red-breasted	78
Hooded	79
Migration of Birds	25
Millinery Collecting	15
Mockingbird	294
Mudhen	110
murre, Brunnich's	44

N.

Nighthawk	186
Nonpareil	246
nuthatch, Brown-headed	305
Red-breasted	304
White-breasted	303

O.

Old-squaw	89
Old-wife	89
oriole, Baltimore	214
Orchard	213
Osprey	168
Ovenbird	283
owl, Acadian	173
Barn	169
Barred	172
Great Gray	173
Great Horned	174
Hawk	175
Long-eared	171
Saw-whet	173

112 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.
owl, Screech	174
Short-eared	171
Snowy	175
Owls	170
Oxeye	130, 132
Oystercatcher	148

P.

Partridge	149, 150
Peep	130, 132
pelican, Brown	74
White	73
Pelicans	73
Perching Birds	189
petrel, Fulmar	67
Leach's	69
Storm	69
Wilson's	70
Petrels	66
phalarope, Northern	118
Red	117
Wilson's	119
Phalaropes	117
Pheasant	150
Ring-necked	152
pigeons,	154
Wild	154
pigeon, Passenger	154
Pintail	84
Pipit	293
plover, Black-bellied	143
Field	138
Golden	143
Killdeer	144
Piping	145
Ringnecked	145
Semipalmated	145
Upland	138
Wilson's	146
Poke	106
Prairie-Chicken	151
Protection of Birds	15, 21
Puffin	43

Q.

Quail	149
-------------	-----

R.

rail, Black	113
Carolina	112
Clapper	110
King	110
Sora	112

	PAGE.
rail, Virginia	111
Yellow	113
Rails	109
Raven	204
Redhead	86
Redpoll	224
Greater	225
Redstart	291
Reedbird	208
Ring-neck	145
Robin	314
Wood	311
Ruff	138

S.

Sanderling	133
sandpiper, Baird's	130
Buff-breasted	139
Curlew	131
Least	130
Pectoral	128
Purple	128
Red-backed	130
Semipalmated	132
Solitary	136
Spotted	140
Stilt	127
Western	132
White-rumped	129
Sandpipers	122
sapsucker, Yellow-bellied	181
scaup, Greater	87
Lesser	87
Scoter	92
Surf	92
White-winged	92
shearwater, Audubon's	68
Cory's	67
Greater	67
Sooty	68
Shearwaters	66
Shell-drake	78
Fresh-water	78
Shoveller	84
shrike, Loggerhead	258
Northern	257
skimmer, Black	65
Skylark	201
Snipe	122
snipe, English	125
Grass	128
Robin	127
Wilson's	125
Snowbird	238
South-southerly	89

	PAGE.
sparrow, Aroadian	234
Chipping	237
English	221
Field	238
Fox	241
Grasshopper	230
Henslow's	231
House	221
Ipswich	228
Lark	235
Lincoln's	240
Nelson's	233
Savannah	229
Seaside	234
Sharp-tailed	232
Song	239
Swamp	240
Tree	236
Vesper	228
White-crowned	235
White-throated	236
Sparrows	217
Sprigtail	84
Stake-driver	99
starling, European	206
stilt, Black-necked	121
swallow, Bank	254
Barn	252
Cliff	251
Eave	251
Rough-winged	255
Tree	253
White-bellied	253
Swallows	250
swan, Whistling	96
swift, Chimney	187

T.

tanager, Scarlet	248
Summer	249
teal, Blue-winged	83
European	82
Green-winged	83
tern, Arctic	59
Black	64
Cabot's	58
Caspian	57
Common	61
Forster's	59
Gull-billed	56
Least	62
Roseate	60
Royal	57
Sooty	63
Trudeau's	58
Terns	40
thrasher, Brown	296

	PAGE.
thrush, Bicknell's	313
Golden-crowned	283
Gray-checked	312
Hermit	313
Olive-backed	313
Varied	315
Water	284
Wilson's	311
Wood	311
Titlark	293
titmouse, Black-capped	306
Tufted	305
Towhee	242
turkey, Wild	152
Turnstone	147

V.

Veery	311
vireo, Blue-headed	261
Philadelphia	260
Red-eyed	259
Solitary	261
Warbling	260
White-eyed	262
Yellow-throated	261
Vireos	259
vulture, Black	156
Turkey	156
Vultures	156

W.

warbler, Bay-breasted	278
Black-and-white	266
Blackburnian	279
Black-poll	279
Black-throated Blue	274
Black-throated Green	280
Blue-winged	268
Brewster's	269
Canada	291
Cape May	273
Cerulean	277
Chestnut-sided	277
Connecticut	287
Golden-winged	269
Hooded	290
Kentucky	286
Lawrence's	280
Magnolia	276
Mourning	287
Myrtle	275
Nashville	270
Orange-crowned	271
Parula	272
Palm	281

114 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
warbler, Pine	280	woodpecker, Downy	179
Prairie	282	Hairy	179
Prothonotary	267	Pileated	182
Tennessec	272	Red-bellied	184
Wilson's	291	Red-cockaded	180
Worm-eating	267	Red-headed	183
Yellow	274	Ycllow-bellied	181
Yellow Palm	282	Wren, Bewick's	298
Yellow Red-poll	282	Carolina	298
Yellow-Rumped	275	House	299
(Report of 1906, p. 108.)		Long-billed Marsh	301
Warblers	263	Short-billed Marsh	300
Water-thrush	284	Winter	300
Grinnell's	285	wren. Bewick's	298
Louisiana	285	Woodpeckers	178
waxwing. Bohemian	255		
Cedar	256		
Whip-poor-will	186		
Whistler	88		
Widgeon	82		
European	81		
Willet	137		
Woodcock	124		
European	123		

Y.

Yellowbird	225
Yellow-legs	136
Greater	135
Summer	136
yellow-throat. Maryland	288

INDEX

Of the Popular Names of Insects found in the Report of 1909

Few insects have popular names that are definitely applicable to one species only. The same insect may be known under different names in different parts of the State, and the same name is often applied to quite different insects. Quite usually the food plant is associated with a general term, as wheat louse, melon louse, apple louse, etc., etc. Any references to popular terms of this character must necessarily be somewhat indefinite, because there are half a dozen species of plant lice on apple, two or three dozen species of galls on oak and so on. Throughout this list I have given the popular names in general use in this State, and the index gives also a number of the crop headings with the chief pests infesting them.

A.

	PAGE.
Ailanthus silk worm	431
Ambrosia beetles	400
American Procris—Harrisina.....	514
tent caterpillar	492
Angoumois grain moth	554
animals, Lice on	43, 86
Anopheles and malaria	715
Ant lions	60, 62
true	655
white	49
Aphis lions	59
apple, Codling moth in	546
flat-head borer	293
leaf crumpler	533
leaf hopper	107
maggot	802
oyster-shell scale	130
plant louse	117
round-head borer	335, 336
tent caterpillar	492
twig borer	308
woolly louse	115
worm	546
yellow-neck caterpillar....	486

PAGE.

arbor vitae, Bag worm on.....	510
Armored scales	121
Army worm	458
parasite	778
Asparagus beetles	339
Assassin bugs	152

B.

Back swimmers	169
Bag worms	510
Bark beetles	400
slippers	325
Bean weevil	356
plant louse	117
Bed bugs	159
Bee flies	744
louse	813
moth	532
Bees	685
Bect-leaf maggot	792
Bectles	195
Bell moths	537
Big bed-bug	154
eyed flies	762

	PAGE
Cut-worms	443
Cynthia moth	431

D.

Dagger moths	443
Dance flies	757
Darkling beetles	357
Darning needles	73
Day flies	37
Death watch	52
Deer flies	738
Delta moths	480
Devil's darning needle	73
Digger bees	689
wasps	656-667
Diving beetles	218
Dobson	56
Dog-louse	46
Dog's head butterfly	419
Dragon flies	73
Drone fly	768
Drop worm	510
Dung beetles	312

E.

Ear-flies	738
wigs	171
Eight-spotted forester	442
Electric light bug	167
Elm four-horned sphinx	429
leaf beetle	347
wood leopard moth	515
Euonymus scale	126

F.

Fall army worm	451
canker worm	495
web-worm	439
False crane flies	736
Fire flies	296
worm on cranberry	547
Fish flies	56
moth	34
Flat bugs	139
footed flies	796
head borers	291-295
Flea beetles	349-354
Fleas	701
Flesh-flies	785
Flies	703
Flour-moth	535
Flower beetles	301, 302
flies	763

	PAGE
Forest tent caterpillar	492
Fork-tail caterpillars	489
Four-horned sphinx	429
Frit flies	807
Frittilaries—Argynnis	409
Frog hoppers	98
Fruit bark beetle	403
fly	810
worm of cranberry	533
Fuller's rose beetle	379
Fungus beetles	250
gnats	722

G.

Gall flies or wasps	595
gnats or midgets	725
Garden web-worm	523
Ghost moths	577
Giant root-borer	323
water bug	167
Girdler on apple	335
Girdle-worm on cranberry	530
Glow-worms	296
Gnats	711
Goat-moths	407
Gold bugs	355
Golden-eyed flies	60, 738
Gooseberry fruit-worm—Zophodia	534
saw-fly	588
span-worm	501
Grain moth	554
web-worm	527
weevil	398
Granary beetles	262, 360
weevil	398
Grape Alypia	422
berry moth	538
eight-spotted forester	422
Fidia	342
flea beetle	352
Harrisina on	514
hawk-moths	426
leaf beetles	342
hoppers	107
phylloxera	113
plume moth	536
root-borer	517
rose chafer on	317
vine chafers	320
vine worms	426
Grasshoppers	177
Gray backs	85
Green-head flies	741
Ground beetles	198
Grouse locusts	178
Guest bees	601

118 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE		PAGE
H.			
Hag-moth	512	Lantern flies	94
Hair streak butterflies	414	Lappet caterpillars	492
Ham beetles	304	Larder beetles	266
Hammer head, borers	291	Leaf beetles	337
Harlequin cabbage bug	136	bugs	159
Harris louse—scurfy scale	127	cutter bees	695
Harvest flies	88	hoppers	99
Hawk-moths	424	miner moths	568
Head-louse	85	rollers	537
Hellgrammite	56	rollers on rose	549
Hessian fly	728	Leather beetles	265, 266
Hickory bark beetle.....f 168, p. 403		Leopard moth	515
borer	328	lice, Biting and sucking.....	43, 85
horned devil	433	Lightning bugs	296
nut weevil	396	Lilac borer—syringæ	517
woolly worm	591	Locust borer	328
Hog louse	86	Locusts	88, 185
Honey bee	699	Long footed flies	754
Hook-tip moths	493	horned beetles	323
Hop louse	118	tailed ichneumons	629
Hornets and nests	671	tongued solitary bees	693
Horn fly	788	Looper caterpillars	494
Horn worms	425	Louse flies	813
Horse bots	773	Luna moth	432
flies	738		
House fly	787	M.	
mosquito	720	Maggots	786
Humming bird hawk-moths.....	424	Malaria and Anopheles	715
Hunch-back flies	761	Maple borer—acerni	519
I.		cottony scale	124
Ichneumon flies	604	false scale	123
Imperialis moth	432	March flies	734
Inch worms	494	Marsh treaders	151
J.		May beetles	318
Joint-worms	648	flies	37
Jumping plant lice	108	Meadow grasshoppers	185
June bugs	318	Meal moth	535
K.		worms	359, 360
Katydids	187	Mealy bugs	124
Kissing bugs	154	Measuring worms	494
L.		Mediterranean flour moth	535
Lace bugs	148	Melon plant louse	117
wing flies	60, 61	Midas flies	749
Lady birds, bugs or beetles.....	252	Midges	711
Lamellicorn beetles	312	Milkweed butterfly	408
		Mole cricket	191
		Monarch butterfly—Danais	408
		Mosquitoes	714
		Mosquito-hawks	73
		Moths and butterflies	407
		Mourning cloak butterfly	411
		Mud-daubers	676
		wasps	672
		Museum beetles	266
		Mushroom maggots	722, 725

	PAGE
N.	
Negro bugs	138
Nettling caterpillars	511
Nimble flies	784
Nut weevils	396

O.

Oak galls	598
leaf miner	570
pruner	326
worms	433
Oil-beetles	373
Onion fly	799
maggot	792
thrips	83
Oriental roach	174
Owlet moths	443
Ox warble fly	773
Oyster shell scale	129

P.

Paper making wasps	671
Parasitic flies	774
wasps	604
Parsley worm	420
Pea louse	118
weevil	350
Peach borer	518
louse	117
scale—West Indian	127
soft scale	125
Pear borer	295
midge	729
psylla	109
scale	128
slug	585
Peddlers	356
Periodical cicada	88
Pernicious scale	129
Pigeon tremex	594
Pill beetles	277
Pineching bugs	311
Pine saw-fly	581
Pirate bugs	152
Pitcher plant mosquito	721
Plant bugs	159
lice	110
Plum curculio	390
soft scale	125
Plume moths	536
Poisonous caterpillars	511
Polyphemus moth	432
Pommace flies	809

	PAGE
Potato beetle, old-fashioned . . .	339, 373
beetle, ten lined—colorado . . .	345
flea beetle	352
hawk moth	428
stalk borer	395
striped blister beetle	373
three lined beetle	339
Potter wasps	669
Promethea moth	432
Prominents—Notodontids	485
Punkies	711

R.

Radish maggot	791
Raspberry root gall	603
saw fly	591
Rat-tailed maggots	763
Reaping rustie	455
Rear-horses—Mantidæ	175
Red bugs	140
legged ham beetle	304
necked blackberry borer	294
Regalis moth	433
Rhinoceros beetle	321
Rice weevil	398
Roaches	174
Robber flies	749
Root maggots	789, 791
web worms	530
Rose beetle—Fuller's	379
bug or chafer	317
leaf hopper	107
leaf roller	549
scale	127
Round headed apple borer	355, 336
borers	323
Rove beetles	237

S.

Saddle back caterpillar	571
Salt marsh caterpillar	439
mosquito	717
Sand flies	711
San José scale	129
Sap beetles	271
Saw flies	580
Seale insects	120
Scorpion flies	65
Screw worm	786
Scurfy seale	127
Seventeen-year locust	88
Sesiid moths	516
Sheep bot	774
tick or louse-fly	814
Shield bugs	132

	PAGE.		PAGE.
Wheat head army worm	458	Wire-worms	283, 704
joint worm	648	Woodland butterflies	412
louse	118	Wood leopard moth	515
midge	729	Woolly apple louse	115
stem borer	595	bears	436
Wheel bug	156	worms on hickory	591
Whirligig beetles	223		
White ants	49		
flies	119		
grubs	312, 318		
grub parasites	666		
marked tussock moth	490		
pine weevil	383		
Willow saw fly	587		
Window flies	748		

Y.

Yellow-heads on cranberry	547
jackets	671
neck caterpillars	486
Yucca moths	577

INDEX

Of Families and General Names of Insects found in the Report of 1909

Family names are printed in CAPITALS; synonyms are in *italics*. Where two pages are referred to, the generic name is duplicated in different orders.

	PAGE.		PAGE.		PAGE.
A.		Acordulecera	593	Adoxus	342
Abbottana	508	Acrapteryx	259	Adranes	236
Abia	586	ACRIDIIDÆ	177	Aedes	717
Ablerus	640	Acritus	271	Egeria	518
Abrostola	470	Acrobasis	532	Æletes	271
Acalles	391	Acrocera	744	Ællius	668
Acallodes	393	Acrolepia	554	Aellopos	425
Acalyptus	389	Acrolophus	577	Ænoplex	631
Acanthaclisis	62	Acrolyta	631	Æschna	78
Acanthia	166	Acroneuria	40	Æshnasoma	708
ACANTHIIDÆ	166	Acronycta	443	ÆSCHNIDÆ	76
Acanthocephala	146	Acroricnus	630	Æthaloptera	504
Acanthocerus	145	Actenodes	293	Agabetes	221
Acanthocinus	334	Actia	776	Agabus	221
Acanthoderes	333	Actias	432	Agallia	102
Acanthoscelis	392	Actina	736	<i>Agalliastes</i>	160
<i>Acanthosoma</i>	138	Actinotia	450	Agapostemon	688
Acantomyops	661	Actium	233	AGARISTIDÆ	442
Acemyia	781	Acrydium	178	Agathidium	230
Acidia	801	Actobius	241	Agathis	609
Acilius	222	Acupalpus	216	Agathobanchus	618
Achatodes	462	Acutalis	91	Agathomyia	762
Acholerops	432	Acylophorus	239	<i>Agenia</i>	672
Acholla	156	Adalia	253	Aglossa	526
Achoreutes	35	Adela	576	Aglyptus	231
Achroia	532	Adelocephala	433	Agnomonina	478
Acinopterus	105	Adelocera	284	Agnopteryx	561
<i>Acleris</i>	547	Adelognathus	617	Agonoderus	214
Acmaødera	293	Adelphacoris	163	Agonosoma	754
Acmaøps	330	Adelphagrotis	452	Agraphus	379
Acnemia	723	Aderocharis	244	Agraulis	408
<i>Acnopliz</i>	631	<i>Adialytus</i>	605	Agrilus	294
Acocephalus	103	Adirus	595	AGRIONIDÆ	73
Acoloithus	514	Adita	451	Agriotes	287
Acontia	473	Admontia	776	Agromyza	812
Acoptus	392	Adoneta	512	AGROMYZIDÆ	811
		Adoxomyia	737	Agrotis	453

	PAGE.		PAGE.		PAGE.
Agrypnus	284	Amorbia	550	Anopheles	716
Alaus	284	Ampelogypter	395	Anoplius	673
Albuna	519	Ampelophagus	426	Anorostoma	795
Alcathœ	517	Amphagrion	75	Anorthodes	448
<i>Alcidamea</i>	697	Amphibolips	600	Anorthosia	559
Alcis	502	Amphicerus	308	Anoura	36
Alcoceras	621	Amphicnephes	799	Anoxus	667
Alebra	107	Amphicoma	316	Anozus	639
Aleochara	23	Amphicrossus	273	Anthaxia	292
Alepioidia	162	Amphientomum	52	Antherophagus	264
Aletia	471	Amphion	425	ANTHICIDÆ	370
Alexeter	624	Amphionycha	337	Anthicus	371
Aleyrodes	119	<i>Amphisa</i>	548	<i>Anthidium</i>	697
ALEYRODIDÆ	119	Amphiscepa	96	Anthocharis	418
Allandrus	405	AMPULICIDÆ	676	Anthocomus	301
Allantus	586	Anacampsis	557	ANTHOCORIDÆ	158
Allindria	276	Anacrabro	682	Anthocoris	158
<i>Alliognathus</i>	682	Anædus	361	Anthomyia	791
Allochrysa	61	Anagoga	505	ANTHOMYIDÆ	788
Allognosta	736	Anametis	378	Anthomyza	811
Allograpta	767	Anaphes	637	Anthonomopsis	388
Alloperla	40	Anaphora	577	Anthonomus	386
Allophyla	795	Anaplodes	500	<i>Anthophilus</i>	678
Allophylax	68	Anarsia	560	Anthophora	694
<i>Alloplasta</i>	629	Anasa	146	ANTHOPHORIDÆ	694
Allopoda	366	Anaspis	369	Anthrax	745
Allorhina	321	Anastatus	645	Anthrenus	266
Allotria	597	Anatis	254	ANTHRIBIDÆ	405
Alloxaxis	368	Anax	78	Anthribulus	406
Alophora	775	Anaxipha	193	Anthribus	406
Alphitobius	360	Anchodemus	385	Antiblemma	479
Alphitophagus	362	Ancistroma	683	Anticarsia	479
Alsophila	495	Ancylis	544	Antispila	565
Alydus	147	Ancylopera	545	Antocha	706
Alypia	442	Ancyloxypha	421	Anurida	36
Alysia	616	Ancyronyx	279	Anytus	455
ALYSIDÆ	615	Andrena	689	Apæcasia	502
Alyson	680	ANDRENIDÆ	689	Apamea	462
ALYSONIDÆ	680	Andricus	602	Apanteles	610
Amadrya	574	Androchirus	363	Apantesia	440
<i>Amalopsis</i>	708	Andronicus	697	Apatelodes	485
Amara	205	Ancephysis	623	Apateticus	137
Amathes	465	Aneurus	140	<i>Apathus</i>	698
Amaurochrous	132	Ania	506	Apatura	412
Amaurorhinus	399	Anisodactylus	216	Apenes	212
Amblycorypha	186	Anisolabia	171	Aphænogaster	658
Amblyctis	365	<i>Anisops</i>	170	Aphærcete	616
Amblyderus	372	Anisosticta	252	Aphalara	108
Amblyscirtes	423	Anisota	433	Aphanisus	591
<i>Amblyteles</i>	635	Anisotoma	230	Aphelinus	640
<i>Amelectonus</i>	619	Anisoxya	366	Aphclonema	96
<i>Amicoplus</i>	607	Anobium	306	Aphelosctia	565
<i>Amilapis</i>	502	Anomala	320	APHIDIDÆ	110
Amitus	652	Anomalagrion	76	Aphidius	605
Ammalo	441	Anomalon	620	<i>Aphidius</i>	606
Ammodonus	360	Anomis	471	Aphilanthops	679
<i>Ammophila</i>	676	Anomœa	340	<i>Aphilodactium</i>	582
Amnestus	133	Anomoglossus	213	Aphiochæta	761
Amolita	471	Anopedias	652	Aphis	117

124 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Aphodius	315	Arthrolips	252	Axion	255
Aphomia	532	Arthrolytus	642	Azelina	508
Aphonus	321	Arthromacra	364		
Aphorista	258	<i>Asaphes</i>	289		
Aphrastus	379	ASCALAPHIDÆ	63	B.	
Aphria	779	Asclera	368	Babia	340
Aphrophora	98	Ascogaster	612	Bacanius	270
Aphycus	644	Ascydmus	232	Baccha	765
APIDÆ	698	Asemum	324	Bactra	538
Apiomerus	155	ASILIDÆ	749	Bactridium	277
Apion	380	Asilus	753	Bactrocera	581
Apis	699	Asphondylia	729	Badister	207
Aplodes	499	<i>Asphragis</i>	627	Bæocera	250
Apocellus	248	Aspidiotus	128	Bætis	38
Aporus	674	<i>Aspidisca</i>	566	Bætisca	38
Apristus	211	Astata	683	Bagous	385
Aproærema	557	<i>Astatus</i>	595	baileya	447
Apsilops	632	Asterolecanium	122	Balaninus	396
Apterygida	171	<i>Astiphromma</i>	618	Balclutha	106
Aptesis	631	Asyndetus	755	Balsa	448
<i>Aptorthus</i>	754	Asyndulum	723	Banasa	136
Aptorthus	754	Atænius	314	Barce	153
Araba	782	Atarba	705	Barilepton	395
Arachnophaga	645	Ateleute	616	Baris	394
ARADIDÆ	139	Atethmia	467	Baropsis	392
Aradophagus	653	Atheta	238	Baryconus	653
Aradus	139	Athous	288	Barypithes	380
Aræocerus	406	Athysanus	104	Baryscapus	639
Aramigus	379	Atimia	329	Basiaeschna	78
Archasia	92	Atlanticus	190	Bassareus	340
Archimerus	145	Atomacera	592	Bassus	622
Archips	549	Atomaria	264	<i>Bathycetes</i>	627, 629
Archytas	783	Atomoscelis	160	Batrachedra	564
<i>Arctia</i>	440	Atomosia	751	Batrisodes	234
ARCTIIDÆ	436	Atranus	209	Batyle	328
Arctocorisa	168	Atropos	52	Bedellia	571
Ardistomis	202	<i>Atropos</i>	51	Bellamira	331
Arenetra	629	Atta	659	Bellura	461
<i>Arcus</i>	243	Attagenus	266	Belonochilus	141
Argeus	426	Attalus	301	Belonuchus	240
Argia	74	ATTELABIDÆ	378	Belostoma	168
Argynnis	409	Attelabus	378	BELOSTOMATIDÆ	167
Argyra	755	Atteva	552	<i>Belvosia</i>	778
Argyresthia	554	Atymna	92	Belyta	651
Argyria	531	Augochlora	688	BELYTIDÆ	651
<i>Argyrophyes</i>	435	Aulacaspis	127	Bembecia	518
Arhopalus	328	<i>Aulacidea</i>	603	BEMBECIDÆ	679
Arilus	156	Aulacizes	100	Bembex	679
Aristotelia	555	<i>Aulacus</i>	637	Bembidium	202
<i>Aristotelia</i>	556	Aulax	603	Bembidula	679
Arnoldia	729	Auletes	377	Benacus	168
Arotes	629	Auleutes	393	Benta	532
Arphanus	144	Aulobaris	394	Beræa	70
Arphia	181	Aulonium	261	Beris	736
Arrhenoplita	361	Aulonothroscus	290	Berosus	226
Arsilonche	446	Autographa	460	<i>Berotha</i>	60
Arta	527	<i>Automalus</i>	636	Betarmon	287
Artace	492	Axima	649		
Arthmius	234	Axinopalpus	211		

	PAGE.		PAGE.		PAGE.
BETHYLIDÆ	667	Brachyacantha	255	Cænis	38
Bezzia	712	Brachybamus	385	Cænocara	307
Bibio	734	Brachycentrus	69	Cænocorse	361
BIBIONIDÆ	734	Brachycis	310	Cænurgia	474
Biblioplectus	233	Brachycoma	783	Cænus	135
Bidessus	219	Brachydeutera	807	Cafius	241
Biorhiza	598	Brachylobus	213	CALAMOCERATIDÆ	69
<i>Biosteres</i>	606	Brachymyrmex	660	Calandra	398
Bittacomorpha	708	Brachynemurus	63	CALANDRIDÆ	397
Bittacus	66	Brachypalpus	770	Calathus	207
Blacus	607	Brachyptemna	708	Calephelis	414
Blaps	358	<i>Brachyrhynchus</i>	139	Caliroa	584
Blapstinus	360	Brachypterus	271	Calledapteryx	509
BLASTOBASIDÆ	562	Brachys	296	Callibætis	38
<i>Blastobasis</i>	563	<i>Brachystegus</i>	680	Callicera	764
<i>Blasturus</i>	37	Brachystylus	379	Calliclisis	625
Blatta	174	Brachytarsus	406	Callicorixa	169
Blattella	174	Bracon	614	Callida	211
BLATTIDÆ	173	BRACONIDÆ	605	Callidium	325
Blechrus	211	Bradycellus	216	Calliephialtes	627
Bledius	247	Branchus	618	Calligrapha	345
<i>Blennocampa</i>	591	Brenthia	553	Callihormius	613
Blepharida	349	BRENTIIDÆ	306	Calliopsis	691
Blepharipeza	781	BREPHIDÆ	509	Calliphora	786
<i>Blepharipus</i>	682	Brephos	509	Callipterus	116
Blepharomastix	522	Brochymena	134	Callirhytis	601
Bleptina	482	Brontes	263	Calloides	328
Blethisa	200	<i>Brotolomia</i>	464	<i>Callomyia</i>	762
Blissus	142	BRUCHIDÆ	356	<i>Callopietria</i>	800
Bæthus	622	Bruchomorpha	96	Callopietromyia	800
Bolboceras	315	Bruchophagus	648	Callosamia	432
Bolbocerosoma	315	Bruchus	357	Calobata	803
Boletina	723	Brumus	255	<i>Calocalpe</i>	496
Boletobius	247	Bryaxis	235	Calocampa	461
Boletophagus	362	Bryophila	447	Calochromus	297
Boletotherus	362	Bryoporus	247	Calocoris	163
Bolitochara	237	Bucculatrix	568	Calophya	109
Bombias	699	Buena	170	Calopteron	296
Bombus	698	BUPRESTIDÆ	290	Colopteryx	73
BOMBYLIIDÆ	744	Buprestis	291	Calosoma	199
Bombyliomyia	784	Bythinus	235	Caloteleia	653
Bombylius	746	BYTHOSCOPIDÆ	102	<i>Calothysania</i>	498
Bomolocha	484	Bythoscopus	102	Calothysanis	498
BORBORIDÆ	796	BYRRIDÆ	277	Calpe	469
Borborus	796	Byrrhus	277	Calymnia	466
Boreus	65	Byturus	266	Calyptus	607
Boriomyia	61			Campicnemus	755
Borkhausenia	562			Campodea	34
Boros	367			Camponotus	663
BOSTRYCHIDÆ	307			Campoplex	610
Bostrychus	308			<i>Campsoceracoris</i>	163
Bothrideres	261			<i>Camptobrochis</i>	164
Bothriocera	95			<i>Camptocladius</i>	714
Bothriothorax	644			Camptoneura	799
Bothynostethus	680			Camptonotus	190
Boyeria	77			Camptoprosopella	798
Brashiloma	500			Campylenchia	93
Brachinus	212			Canace	807
		C.			
		Caberodes	508		
		Caccobaphes	165		
		<i>Cacacia</i>	549		
		Cacoplia	332		
		<i>Cacotropa</i>	622		
		Cæcilius	53		
		<i>Cænia</i>	297		
		Cænia	807		
		Cæniella	297		

126 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Canarsia	535	Centrinus	395	CHALCIDIDÆ	649
Canifa	366	Centrodera	330	Chalcis	649
Canthon	312	Centruchoides	94	Chalcodermus	390
<i>Canthophorus</i>	133	Ceophyllus	236	Chalcœla	531
Canthydrus	218	Cephaleia	581	Chalcolepidius	284
Capis	484	CEPHALOIDÆ	368	Chalcophora	291
CAPITONIDÆ	616	Cephalonomia	668	<i>Chalepus</i>	320
Capitonus	616	Cephaloon	368	Chalybion	676
Capnia	41	Cephaloscymnus	258	Chamyris	473
Capnochroa	363	Cephennium	232	Charadra	443
<i>Capsidæ</i>	159	CEPHIDÆ	594	Chariessa	303
Capsus	164	Cephus	595	Chariesterus	146
CARABIDÆ	198	Ceracis	310	Charistena	355
Carabus	199	CERAMBYCIDÆ	323	Charitopus	645
Caradrina	448	Ceraphron	654	Chauliodes	56
Carcinops	270	CERAPHRONIDÆ	654	Chauliognathus	299
Cardiastethus	158	<i>Cerascopus</i>	153	Chasmatonotus	713
Cardiochiles	607	Cerastipsocus	53	<i>Chasmodes</i>	635
Cardiophorus	284	Ceratina	697	Cheiropachys	646
Carebara	365	CERATINIDÆ	697	Chelonus	612
Caricea	792	CERATOCAMPIDÆ	432	Chelymorpha	356
Carineta	90	Ceratogastra	618	Chermaphis	114
<i>Carneades</i>	455	Ceratoma	349	<i>Chermes</i>	114
Caripeta	502	Ceratomia	429	Chevrolatia	231
Carphoborus	404	Ceratomyiella	775	Chilo	531
Carpocapsa	546	Ceratomyza	812	Chilocorus	255
Carpophilus	271	Ceratophyllus	702	Chiloneurus	644
Cartodere	275	Ceratopogon	711	Chilosia	765
Carynota	91	Ceratoscopus	161	Chilostigma	69
Casnonia	209	<i>Ceratosoma</i>	618	Chimarrha	69
Cassida	355	Ceraturgus	750	Chion	326
Catabena	447	Cerceris	678	Chionaspis	126
<i>Cataclysta</i>	526	Cercopeus	379	Chiromantis	758
Cathartus	262	CERCOPIDÆ	98	CHIRONOMIDÆ	711
Catocala	475	Cercus	271	Chironomus	713
Catogenus	262	Cercyon	227	Chirosia	792
Catoglyptus	624	Ceresa	90	Chirothrips	83
Catolaccus	643	Ceria	771	Chitalia	237
Catopomorphus	230	Cerma	446	Chlænius	213
Catopsilia	418	Ceropales	675	Chlænogramma	429
Catopyrrha	502	CEROPALIDÆ	672	Chlamydatius	160
Catonia	95	Cerophytum	283	Chlamys	340
Catorama	307	Ceroplatus	723	Chlœaltis	180
Cebrio	290	Ceroptres	597	Chloralictus	687
CEBRIONIDÆ	290	Cerotainia	751	Chloridea	467
Cecidomyia	730	Ceruchus	311	Chlorion	677
CECIDOMYIIDÆ	725	Cerura	489	Chlorochlamys	499
Cedius	236	Cerylon	261	Chlorochroa	134
Celama	435	Ceuthophilus	190	<i>Chloroperla</i>	40
Celatoria	776	Ceutorhynchus	393	Chlorops	808
Celetes	296	Chætocnema	353	Chlorotettix	106
Celiptera	479	Chætogædia	783	Chœcidium	313
Celina	219	Chætona	785	Choleva	229
Celithemis	81	Chætoplagia	782	Choragus	406
<i>Cenocalius</i>	607, 616	Chætopsis	800	<i>Choreutis</i>	553
Cenopis	548	Chætopterygopsis	69	Chorinæus	621
Centeterus	632	Chaitophorus	116	Choristoneura	727
Centistes	607	Chalarus	762	Chorthippus	180

	PAGE.		PAGE.		PAGE.
Chortophaga	181	Clambus	231	Colpocephalum	47
<i>Chortophila</i>	791	Clastoptera	99	Colpognathus	632
Chramesus	403	Clausicella	776	COLYDIIDÆ	260
Chremylus	613	Clemensia	435	Colydium	261
Chromagrion	75	Cleon	38	Colymbetes	222
CHRYSIDIDÆ	668	CLEONYMIDÆ	646	<i>Conchylis</i>	551
Chrysis	668	Cleora	503	<i>Conchylodes</i>	522
Chrysobothris	293	CLERIDÆ	302	Conicera	762
Chrysochlamys	776	Clerus	302	CONIOPTERYGIDÆ	62
Chrysochus	344	Cligenes	144	Coniopteryx	62
Chrysodina	344	Clinidium	261	Connophron	231
Chrysogaster	764	Clinocentrus	613	Conocephaloides	187
CHRYSOMELIDÆ	337	Clinocephalus	180	Conocephalus	189
Chrysomphalus	129	CLINOCORIDÆ	159	Condylolomia	527
Chrysomyia	786	<i>Clitellaria</i>	737	CONOPIDÆ	771
Chrysomyza	800	Clivina	201	Conops	771
Chrysopa	61	<i>Clothilla</i>	52	Conorhinus	154
Chrysophanus	416	Clusia	795	Conosoma	246
CHRYSOPIDÆ	61	Clytanthus	329	Conotelus	272
Chrysopila	743	<i>Clytochrysus</i>	681	Conotrachelus	389
Chrysopora	555	Cnemidotus	217	Contarinia	729
Chrysops	739	Cnemodus	144	Copelatus	221
Chrysotoxum	764	Cnesinus	404	Copidita	368
Chrysotus	755	COCCIDÆ	120	Copidosoma	644
Chyliza	805	Coccidula	258	Copipanolis	451
Chytolita	482	Coccinella	254	Copris	313
Chytonyx	447	COCCINELLIDÆ	252	Coptocycla	356
Cicada	89	Coccophagus	641	Coptodera	211
CICADIDÆ	88	Coccus	125	Coptodisca	566
Cicadula	106	<i>Cochlidion</i>	512	Coptotomus	221
Cicindela	196	<i>Cockerellia</i>	691	Coptotriche	574
CINCINDELIDÆ	196	Cœlambus	219	<i>Copturodes</i>	392
Cincinnati	509	Cœlinius	615	Coquillettidia	721
Cicones	260	Cœliodes	393	Cordulegaster	77
Cilea	246	<i>Caliotis</i>	615	Cordylura	794
Cimbex	587	Cœlioxys	696	COREIDÆ	145
Cimex	159	Cœlogaster	393	Corethra	722
Cindaphia	524	Cœlopisthus	644	Corethrella	722
Cingilia	505	Cœlostathma	548	CORETHRIDÆ	721
Cinglis	498	Cœlostethus	306	<i>Corimelana</i>	138
Cinura	33	Cœnocalpe	497	<i>Corisa</i>	168
Cinyra	292	Cœnophanes	614	Coriscium	573
CIOIDÆ	310	Cœnosia	793	Coriscus	149
Circotettix	182	Colaspis	344	CORIXIDÆ	168
Cirrhophanus	468	Colastus	271	Corizus	147
Cirrœida	465	Colenis	230	Corphyra	370
Cirrospilus	638	Coleocentrus	630	Corrodentia	51
Cis	310	Coleophora	563	Corthylus	400
Cistela	363	Coleothrips	83	Corticaria	275
CISTELIDÆ	362	Colias	419	Corydalis	56
<i>Cisthene</i>	435	Collaria	162	CORYLIPIDÆ	251
Cistogaster	774	Collembola	34	Corylophodes	252
Citheronia	433	Colletes	695	Corymbites	280
Cixius	95	COLLITIDÆ	695	Corynocoris	145
Cladius	588	Collops	301	Corythuca	148
Cladobius	116	Colobopterus	63	Coscinoptera	340
Cladora	494	Colon	230	Cosmia	465
Cladura	706	Colopha	115	Cosmoconus	622

	PAGE.		PAGE.		PAGE.
Diabrotica	348	Dioryctria	533	Dyscinetus	320
Diachorisia	576	Diplochila	206	Dysmerus	263
Diachus	342	<i>Diplodus</i>	155	Dysodia	515
<i>Diastictis</i>	501	Diplotaxis	318	Dysphaga	337
Dibolia	354	Dipterygia	450	Dyspteris	494
Dibrachys	642	Discocerina	806	DYTISCIDÆ	218
Dicraneura	107	Discoderus	214	Dytiscus	222
Diacrisia	439	Disonycha	350		
Dialectica	572	Dissosteira	182	E.	
Dialges	622	Distenia	330		
Dialysis	743	Distichona	778	Eacles	432
Dialytes	314	Ditemnus	300	Earinus	609
Dianthidium	697	Ditoma	260	Eburia	326
Diaphania	522	Dixa	710	<i>Eccritotarsus</i>	165
Diapheromera	177	DIXIDÆ	710	Ecdytophæa	546
Diaphnidia	161	Docophorus	44	Echinomyia	784
Diaphorus	754	Docosia	724	Echtrichodia	155
Dianous	242	Dolja	429	Eclimus	747
Diaperis	361	Dolerus	584	Ecpantheria	439
Diapria	651	Dolichoderus	660	Ecphylus	614
DIAPRIIDÆ	651	<i>Dolichopesa</i>	708	<i>Ectemnius</i>	681
Diaspis	127	DOLICHOPODIDÆ	754	Ectopiocerus	161
Diastata	811	Dolichopus	756	Ectopria	280
Diastictis	501, 522	Dolopius	287	Ectropis	504
Diastrophus	602	Donacia	337	Ecyrus	334
Diathrausta	526	Dorcaschema	332	Eczetesis	623
Diathræa	531	Dorcatoma	307	Eido	552
Dicælus	207	Dorcus	311	Eiphosoma	620
Dicerca	292	Dorocordulia	79	Elachiptera	809
Dichæta	805	Doryctes	613	<i>Elachista</i>	565
Dichelonycha	316	Dorymyrmex	660	ELACHISTIDÆ	563
Dichomeris	559	Doryodes	471	Elachistus	639
Dichromorpha	180	Doryopteryx	52	Elaphidion	326
Dichrocytus	164	Dorytomus	384	Elaphrus	200
Dieranomyia	705	Dræculacephala	101	ELASMIDÆ	641
Dicranopselaphus	280	Drapetes	290	<i>Elasmocerus</i>	302
Dicranoptycha	706	Drasteria	474	Elasmopalpus	534
Dictyophara	94	Drasterius	286	Elasmosoma	609
Dicymolomia	531	Drepana	493	Elasmostethus	138
Dicyphus	161	DREPANIDÆ	493	Elasmucha	138
Didea	766	Drepanosiphum	116	Elasmus	641
Didymops	78	Dromæolus	282	Elater	285
Diedrocephala	100	Dromius	211	ELATERIDÆ	283
Diglochis	643	Dromogomphus	77	Elephantomyia	705
Dilophonota	428	Drosophila	810	Eleusis	249
Dilophus	734	DROPSOPHILIDÆ	809	Elidiptera	95
Dimorphopteryx	583	Drymus	144	Elipsocus	53
Dineutes	224	Dryobota	450	Elis	666
<i>Dinocamptus</i>	609	Dryocampa	433	<i>Ellema</i>	430
Dinocarsis	645	Dryocætes	402	Elleschus	388
Dinoderus	309	Dryomyza	796	Ellida	490
Dinopsis	239	Dryoec	563	Ellipes	191
Diochus	242	Dryophanta	599	Ellychnia	297
Dioctria	750	Dryophthorus	399	Elmis	278
Diædes	360	Dryops	278	Elonus	372
<i>Dioleogaster</i>	610	DUFLOREIDÆ	691	Elophila	526
Diommatus	160	Dynastes	321	Emblethis	144
Diomorus	650	Dynatosoma	724	Emclinus	372
DIOPSIDÆ	805	Dyschirius	201	Emesa	153

130 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Emmesa	365	Epilachne	254	Euchæca	496
Emphor	694	Epimartyria	578	Eucinetus	280
EMPHORIDÆ	694	Epimecis	504	Euclea	511
Emphytus	582	<i>Epinotia</i>	543	Euclemensia	562
EMPIDÆ	757	Epipaschia	532	Euclidia	474
Empis	759	Epiphragma	707	EUCNEMIDÆ	281
Empoasca	107	EPIPLEMIDÆ	509	Eucæla	596
Enallagma	75	Epipocus	259	Euccælidia	596
Enarmonia	543	Epischnia	534	Euconnus	231
<i>Enarmonia</i>	545	<i>Episcopus</i>	160	Eucosma	540
Enchenópa	93	Episimus	543	Eucrada	305
Encoptolophus	181	Epistenia	646	Eucrostis	499
Encyclops	330	Epithecitis	556	Eucymatoge	496
ENCYRTIDÆ	644	Epitragus	358	Eudamus	424
Encyrtus	644	Epitrix	352	Eudarcia	576
Endalus	385	Epizeuxis	481	Eudecatoma	647
Endecatomois	308	Epuræa	272	Eudeilinea	493
Endelomyia	584	Epyris	667	Eudemis	544
ENDOMYCHIDÆ	258	Erannis	505	<i>Eudemis</i>	538
Endomychus	259	Erastria	472, 498	Euderces	329
Endrosis	562	Erax	752	Euderus	641
Enicmus	275	Erchomus	246	Eudocimus	383
Enicospilus	620	Erebus	480	Eudule	495
Ennearthron	310	Eremocoris	145	Eueretagrotis	452
Ennomos	506	Eremomyia	791	Eufidonia	500
<i>Entechnia</i>	694	Eremotylus	620	Eugnamptus	378
Entomobrya	35	Eretmocerus	641	Eugnathodus	106
Entomophthalmus	282	Eriocampa	583	Eugnoriste	725
Entylia	93	Eriocera	707	Eugonobapta	506
Eois	499	Eriococcus	123	Euherrichia	473
Eosphoropteryx	469	Eriocrania	578	<i>Euhybus</i>	759
Epagoge	548	Eriopetera	706	Eulasonia	776
Epalpus	784	Eristalis	768	Eulathrobium	244
Epelis	500	Eritettix	179	Eulecanium	125
Epeolus	693	Ernobius	305	Eulechriops	392
<i>Epeolus</i>	692	<i>Eriocampa</i>	584	Eulia	550
Epermenia	566	Eros	297	Eulissus	241
Ephalus	366	EROTYLIDÆ	259	EULOPHIDÆ	638
Ephemera	37	Erromenus	623	Eumacrocentrus	607
Ephemeiella	38	EYRCINIDÆ	413	Eumenes	669
EPHEMERIDÆ	37	Erycus	384	EUMENIDÆ	669
Ephestia	535	Erythaspidæ	591	Eumetopia	800
Ephestiodes	535	Erythemis	82	Eumeyrickia	561
Ephialtes	627	Erythrodiplax	81	Eumicrus	232
Ephistemus	264	Estigmene	439	Eunotus	646
Ephuta	665	Euæstethus	243	Eupactus	306
Ephydra	807	Euanastrocerus	670	Eupanychis	467
EPHYDRIDÆ	805	Euantha	785	Euparyphus	737
Epicerus	378	Euaesta	803	Eupelmus	645
Epiaeschna	77	Eubadizon	608	Euphoria	321
Epicallima	562	Eubaphe	436	Euphorocera	780
Epicauta	374	Eucalyptera	471	Euphorus	609
Epicnaptera	493	Eucerceris	678	Euphyto	777
Epicordulia	78	EUCERIDÆ	693	Eupithecia	495
Epicypta	724	Euceros	623	Eupitenus	735
Epidiopsis	128	Euchaetias	441	Euplectus	233
Epierus	269	Euchalcia	469	Euplectrus	639
Epiglaea	466	EUCHARIDÆ	646	Euplexia	450
Epigrymyia	777	Euchlena	507	Eupogonius	334

	PAGE.		PAGE.		PAGE.
Eupristocerus	294	Exochomus	255	Gelechia	558
Eupsalis	396	Exochus	621	GELECHIIDÆ	554
Eupteryx	107	Exoprosopa	745	Geocoris	142
Euptoieta	409	Exorista	780	Geodromicus	249
Europs	277	Exoristoides	779	GEOMETRIDÆ	494
Eurosta	802	Exyra	472	GEOMYZIDÆ	811
Eurycnemus	714	Exyston	623	Geopinus	214
Eurycyttarus	510			Geotomus	133
Eurygaster	132			Geosargus	731
Eurypogon	280	F.		Geotrupes	315
Eurytoma	647	<i>Fabatana</i>	527	Geranomyia	704
EURYTOMIDÆ	647	Fabiola	562	Geron	747
Eurymycter	405	Fagitana	462	GERRIDÆ	150
Eusandalum	645	Falagria	237	Gerris	151
Euschistus	135	Falcaria	493	Geshna	526
Eusiphona	812	Feltia	454	Gibbium	305
Eusisyropa	779	Feniseca	416	Glaea	466
Eusphyrus	405	Fentonia	489	Glaphyria	521
<i>Euspongius</i>	680	<i>Fenusa</i>	591	Glauce	555
Eustalomyia	791	Feralia	450	Glena	504
Eusterinx	616	Fidia	342	Glenurus	62
Eustictus	163	<i>Figites</i>	596	Gloma	759
Eustilbus	251	FIGITIDÆ	506	Glossonotus	91
Eustixia	525	Fiorinia	128	Gluphisia	490
Eustroma	496	Fitchia	155	Glyphidocera	559
Eustrophus	366	Fœnus	636	Glyphipteryx	553
Eutelia	471	Forcinolus	278	Glyphononyx	287
Eutelus	643	Forficula	171	Glypta	625
Eutettix	104	FORFICULIDÆ	171	Glyptina	354
Euthera	781	Formica	662	Glyptobaris	394
Euthisanotia	468	FORMICIDÆ	655	Glyptoma	249
<i>Euthoctha</i>	145	Fornax	282	<i>Glyptomorpha</i>	615
Euthyatira	485	Frontina	780	Glyptoscelis	342
Eutochia	361	Fucellia	793	Gnathias	692
Eutolype	451	FULGORIDÆ	64	Gnathocerus	360
Eutrapela	507	Fulvius	162	Gnathodon	696
Eutreta	802			<i>Gnathodus</i>	106
Eutylistus	307	G.		Gnathotrichus	401
Eutyphlus	233	Gaberasa	483	Gnophomyia	707
Euura	589	Gædiopsis	783	Gnorimoschema	557
Euxesta	800	Galactomyia	775	Gnorimus	322
Euxoa	455	Galasa	528	Goes	332
Euzophera	535	Galerita	209	Gomphæschna	78
Evania	637	Galerucella	347	Gomphus	77
EVANIIDÆ	636	Galsus	651	Gonaspis	602
Evarthrus	205	Galgula	472	Gonia	783
Evergestis	523	<i>Galeulidæ</i>	167	Goniognathus	104
Evippe	556	<i>Galgulus</i>	167	Goniocotes	46
Evoxystoma	648	Galleria	532	Goniomyia	706
Evykeus	687	Ganonema	69	Gonodontis	507
<i>Exartema</i>	538	Gargaphia	149	Gonoides	46
Excchia	724	Gastroidea	346	<i>Goniataulius</i>	68
Exema	340	Gastrolobium	243	Goniops	739
Exentera	543	Gastrophilus	773	Goniozus	667
Exenterus	624	Gastrops	806	Gorytes	679
<i>Exephanes</i>	625	Gaurotes	330	GORYTIDÆ	679
Exetastes	618	Gelastocoris	167	Gossyparia	122
Exilis	503			Gracilaria	571
Exochilum	620			Grammodes	479

132 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Grammospila	616	Halticus	161	Hemiteles	631
<i>Gramptopsilopus</i>	754	Hammomyia sm	791	Hemyda	777
Graphisurus	334	Hapithus	193	HEPIALIDÆ	578
Graphoderes	223	Haplandrus	358	Heptagenia	38
Graphomyia	788	Hayloa	438	Heræus	143
Graphops	343	Haptoncus	272	Hercostomus	757
Grapta	410	Harmonia	254	Herculia	527
Grotea	629	Harmostes	147	Heriades	697
GRYLLIDÆ	190	<i>Harpactopus</i>	677	Hermetia	736
Gryllotalpa	191	Harpalus	214	<i>Herpestomus</i>	632
Gryllus	192	<i>Harpiophorus</i>	583	HESPERIDÆ	420
Grypeta	238	Harrisimemna	446	Hesperobium	243
Gueneria	500	Harrisina	514	Hesperodes	725
Gymnandrosana	546	Harpyia	489	Hesperotettix	183
Gymnetron	389	<i>Hebrus</i>	150, 152	Hetærina	74
Gymnochæta	779	Hecabolus	613	Hetærius	269
Gymnoclytia	774	Hecalus	103	Heterachthes	327
Gymnonychus	588	Hedychridium	668	Heterocampa	488
Gymnophora	762	Hedychrum	668	HETEROCERIDÆ	279
Gymnopternus	757	Heidemannia	160	Heterocerus	279
Gymnoscelus	607	Helcon	607	Heterogamus	613
Gymnosoma	774	Helicobia	786	Heterogenea	513
Gynandropus	214	Helicopsyche	69	Heterogramma	483
Gypona	101	<i>Helicoptera</i>	95	Heteromyia	712
Gypsochroa	497	Heliomata	500	Heteroneura	795
Gypsonoma	543	Heliothis	467	HETERONEURIDÆ	794
GVRINIDÆ	223	Heliothrips	84	Heteropelma	619
Gyrinus	223	Heliozela	566	Heterophaga	604
Gyrophypnus	241	Heliria	91	Heteroplectron	69
Gyrophæna	237	Helluomorpha	212	Heterophleps	495
GYPPOPIDÆ	48	Helobia	707	Heterothops	239
Gyropus	48	Helochara	101	Heteroxys	644
		Helochares	226	Hetæmis	332
		Helocombus	227	Hexagenia	37
		Helocordulia	79	Hexarthrum	399
		Helodes	280	<i>Heza</i>	156
		Helomyza	795	Hilara	759
		HELOMYZIDÆ	795	Hilarella	782
		Helophilus	769	Hillia	448
		Helophorus	224	Himatium	399
		Helops	362	Himella	460
		HELORIDÆ	652	Hippelates	808
		Helorus	652	Hippiscus	181
		Helotropha	451	HIPPOBOSCIDÆ	813
		Hemadas	646	Hippodamia	253
		Hemantus	371	Hippopsis	335
		Hemaris	425	Hister	268
		HEMEROBIDÆ	60	HISTERIDÆ	267
		Hemerobius	61	Holcaspis	600
		Hemerocampa	490	Holcocephala	750
		Hemerodromia	758	Holcocera	563
		Hemichroa	588	<i>Holcopelte</i>	641
		Hemicrepidius	289	<i>Holcostethus</i>	134
		Hemileuca	434	Hololepta	268
		HEMILEUCIDÆ	434	Holonomada	692
		Hemimene	546	Holopogon	750
		Hemirhipus	284	Holostrophus	366
		Hemistenus	243	Homalium	249
		Hemitaxonus	582	Homalomyia	789
H.					
<i>Habritus</i>	646				
<i>Habrobracon</i>	615				
Hadena	449				
Hadrobregmus	306				
Hadroductylus	624				
<i>Hadrodrema</i>	164				
Hadronotus	653				
Hadrophlebia	38				
Hæmatobia	788				
Hæmatopinus	85				
Hæmatopota	740				
Hæmatopsis	498				
Hæmonia	338				
Hægenius	76				
Halesus	68				
HALICTIDÆ	686				
Halictoides	691				
Halictus	687				
HALIPLIDÆ	217				
Haliphus	217				
Halisidota	441				
Hallomenus	366				
Haltica	352				
Halticoptera	646				

	PAGE.		PAGE.		PAGE.
Homalotylus	644	Hydrous	225	Idana	799
Homaspis	624	Hydrovatus	218	Idiocerus	102
Homochlodes	502	Hyetodesia	790	<i>Idiolispa</i>	633
Homœmus	132	<i>Hygroplitis</i>	610	Idiostethus	395
Homœosoma	535	<i>Hygrotrechus</i>	151	Illice	435
Homoglæa	466	Hylastes	404	Ilnacora	161
Homohadena	451	Hylemyia	791	Ilybiosoma	221
Homolota	237	Hylesinus	404	Ilybius	220
Homophoberia	478	Hylobius	383	Ilythea	806
<i>Homophysa</i>	521	Hylotoma	592	Incurvaria	574
Homoporus	642	Hylotrupes	325	Inga	561
<i>Homoptera</i>	479	Hylurgops	404	<i>Ingura</i>	470
Homopyralis	474	Hymenarcys	135	Iodia	464
Homosteia	576	Hymenia	522	Iphiaulax	615
<i>Honora</i>	535	Hymenorus	363	Ipimorpha	466
Hoplandria	238	Hypargyricus	590	Ips	274
Hoplia	316	Hyparpax	489	Isehalia	373
Hoplismenus	636	Hypena	484	Ischnaspis	130
<i>Hoplisus</i>	679	HYPENIDÆ	480	Ischnodemus	142
Hoplocampa	588	Hypenula	483	Isehnomyia	811
Hoplogaster	792	Hyperæschra	487	Ischnoptera	174
Horcias	165	Hyperaspis	256	Ischnorhynchus	141
Horismenus	641	Hyperchiria	432	Ischnura	76
Horistonotus	285	<i>Hyperechia</i>	751	Ischyryrus	260
Hormaphis	114	Hyperetes	52	Isia	440
Hormisa	482	Hyperitis	506	Isochætës	512
Hormiscus	405	Hyperplatys	334	Isocorypha	575
Hormorus	378	Hyphantria	439	Isocratus	642
Hulstia	535	Hypnoidus	285	Isocybus	652
Hyadina	806	Hypocala	478	<i>Isodontia</i>	677
Hyaliodes	161	Hypocera	761	<i>Isodromas</i>	631
Hyalomyodes	777	Hypochæta	776	Isodyctium	590
Hyalopteris	116	Hypocœlus	282	Isogenus	40
Hyamia	474	<i>Hypocrabro</i>	681	Isogona	474
Hybos	759	Hypoderma	773	<i>Isopteryx</i>	49
Hybroma	576	Hypolampsis	349	Isosoma	648
Hydatieus	222	Hypophlœus	362	Isomira	363
Hydnocera	303	<i>Hypomicrogaster</i>	610	Isoperla	40
Hydræna	225	Hypoprepia	435	Isoplastus	230
Hydrellia	805	Hypopteromalus	643	Isotoma	35
Hydria	496	Hypostena	776	<i>Itamoplex</i>	630
Hydriomena	497	<i>Hypotaxonus</i>	583	Ithycerus	380
Hydrobius	227	<i>Hypothenemus</i>	401		
<i>Hydrocampa</i> ...	522, 525	Hyppa	450	J.	
Hydrocanthus	218	Hypsopygia	527	Jalysus	148
<i>Hydrocharis</i>	226	Hypospirapha	474	Janassa	488
Hydrochus	225	Hyptis	637	Janus	594
Hydræcia	462	Hypulus	365	JASSIDÆ	103
Hydrometra	152	Hysterosia	552	Jassus	106
Hydromyza	794			Johannseniella	712
HYDROPHILIDÆ	224			Junonia	411
<i>Hydrophilus</i>	225	I.		K.	
Hydrophilus	226	Ibalia	604	Kaliopenusa	591
Hydrophoria	791	IBALIIDÆ	604	Kaliosyphinga	591
Hydrophorus	756	Ichnea	303	Kermes	122
Hydroporus	219	Ichneumon	632	Kolla	100
Hydropsyche	71	ICHNEUMONIDÆ	616	<i>Konowia</i>	593
HYDROPSYCHIDÆ ...	70	Ichneutes	507		
Hydrotæa	789	Icterica	802		

134 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
L.		Lepidosaphis	129	Ligyrocoris	143
Labena	629	Lepidostoma	69	Ligyryus	320
Labia	171	Lepinotus	52	Limacodes	512
Labidomera	344	Lepipolys	451	LIMACODIDÆ	511
Laccobius	226	Lepisma	33	Limenitis	412
Laecephilus	218	Leptacinodes	242	Limnebius	226
Lachnoerepis	213	LEPTIDÆ	742	LIMNEPHILIDÆ	68
Lachnosterna	318	<i>Leptina</i>	447	Limnephilus	68
Lachnus	115	LEPTINIDÆ	228	Limnerium	619
Lacosoma	509	Leptinus	228	Limnichus	278
LACOSOMIDÆ	509	Leptinotarsa	345	Limnobaris	395
Læmophlœus	263	Leptis	743	Limnobia	705
Læmosaccus	389	Leptobyrsa	148	Limnophila	707
Lætilia	535	Leptocella	70	Limnophora	790
Lagium	585	LEPTOCERIDÆ	70	Limnopus	151
LAGRIDÆ	L364	Leptocerus	70	<i>Limnotrechus</i>	151
Lamenia	97	Leptochilus	671	Limonius	288
Lampria	751	Leptogaster	749	Limosina	796
Lampronota	629	Leptoglossus	146	Limothrips	84
LAMPYRIDÆ	296	Leptolinus	242	Limulodes	250
Languria	259	Leptomeris	499	<i>Lina</i>	346
Lanthape	532	Leptomorphus	724	<i>Lindcnius</i>	682
Laodamia	534	Leptopeza	759	Linnæmyia	779
Lapara	430	Leptophlebia	37	Linolathra	244
Laphria	752	Leptopygas	617	<i>Lioderma</i>	134
Laphygma	451	Leptorhaptus	651	Liodes	230
Laphystia	750	Leptostyla	149	Liogma	708
Lappus	371	Leptostylus	333	<i>Liolyda</i>	581
Largus	140	<i>Leptoterna</i>	163	Liopus	333
Laricobius	304	Leptothorax	659	LIOTHEIDÆ	47
Larra	683	Leptotraehelus	209	<i>Liotropis</i>	136
LARRIDÆ	683	Leptoypha	149	LIPARIDÆ	490
LASIOCAMPIDÆ	492	Leptura	331	Lipeurus	45
Lasioderma	306	Lepturges	334	Lipocheæta	807
Lasioglossum	687	Lepyronia	98	Lipocosma	522
Lasiopogon	750	Leria	795	<i>Lipolexis</i>	605
Lasiops	790	Leskia	777	Lipura	36
Lasioptera	726	Leskiomima	777	Lispa	793
Lasius	661	Lestes	74	Lispinus	249
Laspeyresia	545	Lesteva	249	<i>Lispocephala</i>	793
Latreillimyia	779	Lethocerus	168	<i>Lissonota</i>	629
Lathrobiella	244	Leucania	458	Lissorhoptrus	385
Lathrobioma	244	Leuce	555	Listotrophus	239
Lathrobium	243	Leucodesmia	639	Listronotus	382
<i>Lathrobium</i>	244	Leucophthalmia	498	Litanomyia	758
Lathropus	263	<i>Leucophthalmia</i>	498	Litargus	265
Lathrotaxis	244	Leucopis	813	Lithacodes	513
LATRIDIIDÆ	274	Leucorhinia	81	Lithacodia	472
Latridius	275	Leucospis	649	<i>Lithocelletis</i>	568
Lauxania	798	Leucostola	755	Lithocharis	245
<i>Laverna</i>	566	Leucostoma	777	Lithochrus	251
Lebia	210	Leuctra	41	Litholathra	244
Lechriops	392	Liancalus	756	Litholomia	461
<i>Leiphron</i>	607	Libellula	80	LITHOSIIDÆ	434
Lema	338	LIBELLULIDÆ	78	Livia	108
Lepidocyrtus	35	Liburnia	97	Lixus	383
Lepidophora	747	Libythea	413	Loberus	264
		LIBYTHEIDÆ	413	<i>Lobioptera</i>	813

	PAGE.		PAGE.		PAGE.
Lobophora	495	<i>Lysiphlebus</i>	605	Matus	221
Lobopoda	363	<i>Lysitermus</i>	614	Mayetiola	729
LOCUSTIDÆ	185	<i>Lytrosis</i>	503	Mea	576
Loderus	584			Mecopeltus	393
Lomamyia	60	M.		Mecoptera	65
Lomanaltes	484			Mecostethus	181
Lomatopleura	162	<i>Marcaria</i>	501	Mecyna	523
<i>Lomechusa</i>	238	<i>Machilis</i>	34	<i>Mecyna</i>	523
Lonchæa	797	<i>Macquartia</i>	776	Mecynotarsus	372
Lonchoptera	761	<i>Macratria</i>	371	Medeterus	756
LONGHOPTERIDÆ	761	<i>Macremphytus</i>	583	Megachile	695
Longistigma	116	<i>Macrobasis</i>	374	MEGACHILIDÆ	695
Longitarsus	354	<i>Macrocentrus</i>	606	<i>Megacalum</i>	163
Longurio	709	<i>Macrocera</i>	724	Megalocoleus	160
Lopheros	297	<i>Macrocolcus</i>	160	Megalodacne	259
<i>Lophoderus</i>	550	<i>Macroductylus</i>	317	Megalopyge	514
Lophodonta	487	<i>Macrodyctium</i>	615	MEGALOPYGIDÆ	513
Lophopteryx	487	<i>Macromeigenia</i>	779	Megamelanus	97
Lophyrus	581	<i>Macromia</i>	78	Megamelus	97
Lopidea	161	<i>Macronema</i>	70	Megapenthes	286
Lopus	160	<i>Macronoctua</i>	450	Megarhyssa	627
Loxandrus	206	<i>Macronychus</i>	279	Megarthritis	249
Loxaulus	599	<i>Macrophya</i>	586	Megastigmus	650
<i>Loxocephalus</i>	609	MACROPIDÆ	691	Megastilicus	245
Loxocera	804	<i>Macropis</i>	691	Megilla	253
Loxostege	523	<i>Macrops</i>	383	<i>Megischus</i>	604
Loxotropa	651	<i>Macrorileya</i>	647	Melalopha	486
LUCANIDÆ	311	<i>Macrosargus</i>	737	Melanactes	290
Lucanus	311	<i>Macrotelia</i>	653	<i>Melanathus</i>	133
Lucidota	297	<i>Macrotelus</i>	302	Melandrya	365
Lucilia	786	<i>Macroxyela</i>	580	MELANDRYIDÆ	364
Ludius	286	<i>Macrurocampa</i>	489	<i>Melanobracon</i>	615
Luperaltica	354	<i>Madarellus</i>	394	<i>Melanocoryphus</i>	140
Luperina	449	<i>Magdalis</i>	386	Melanolophia	504
Luperodes	349	<i>Magusa</i>	451	Melanolestes	154
Luteva	153	MALACHIDÆ	301	Melanomma	474
Lycæna	416	<i>Malacocoris</i>	160	Melanophila	292
LYCÆNIDÆ	414	<i>Malacomyza</i>	62	Melanophora	784
Lycia	504	<i>Malacosoma</i>	492	Melanophthalma	275
Lycoperdina	258	<i>Mallophora</i>	752	Melanoplus	183
Lycostomus	296	<i>Mallota</i>	769	Melanorhopala	149
Lyctocoris	158	<i>Malporus</i>	371	<i>Melanostelis</i>	695
Lyctus	309	<i>Malthinus</i>	300	<i>Melanostoma</i>	766
Lycogaster	667	<i>Malthodes</i>	300	<i>melanotus</i>	287
Lycomorpha	434	<i>Mamestra</i>	456	<i>Melanoranthus</i>	116
Lyda	581	MANTIDÆ	175	Melasis	281
LYDIDÆ	581	<i>Mantispa</i>	60	Melasoma	346
LYGÆIDÆ	140	MANTISPIDÆ	60	Melba	233
Lygocerus	654	<i>Mantura</i>	353	Meligcthes	273
Lygranthœcia	468	<i>Maracanda</i>	63	<i>Melinna</i>	161
Lygus	140	<i>Marasmalus</i>	471	Melipotis	475
<i>Lygus</i>	164	<i>Margaronia</i>	522	Melissodes	693
LYMEXYLIDÆ	309	<i>Margaronia</i>	522	Melitæa	409
Lymexylon	310	<i>Marmara</i>	573	Melitara	534
Lymnæcia	565	<i>Martyringa</i>	560	Melitta	690
Lyonetia	573	<i>Marumba</i>	430	Melittia	516
Lyperosia	788	<i>Maicera</i>	781	Melitoma	694
Lyroda	684	<i>Mastogenius</i>	294	Melittobia	640

136 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
MELLINIDÆ	680	Metzneria	554	Monohammus	332
Mellinus	680	Mezira	139	Monoleuca	512
Mellisopus	546	Mezium	305	Monomorium	656
<i>Meloborus</i>	619	Miarus	389	Monophadnoides	591
Melœ	374	Micracis	403	Monophadnus	590
MELOIDÆ	373	<i>Micrarge</i>	592	Monopis	574
Melophagus	814	Microbembex	679	Monosoma	583
MEMBRACIDÆ	90	Microcentrum	187	Monotoma	277
Memythrus	517	Microcentrus	94	MONOTOMIDÆ	277
Meneclæ	136	Microchrysa	737	Monoxia	348
Menesta	559	Microcœlia	447	Mononychus	392
Meniscus	627	Microclytus	329	MORDELLIDÆ	368
Menopon	47	Microdon	763	Mordella	369
Meracantha	362	Microdus	609	Mordellistena	369
<i>Meraporus</i>	643	Microgaster	610	Morellia	787
Merinus	358	Microlathra	244	Mormidea	135
Merisus	642	<i>Micromelus</i>	642	Morrisonia	457
Merium	325	Micromus	61	Mosillus	809
Mermira	179	Micropeplus	249	Murgantia	136
Merocorinæ	145	MICROPEZIDÆ	803	Musca	787
Meromyza	808	Microphthalma	783	MUSCIDÆ	786
Meronera	237	Microplitis	610	Muscina	788
Merope	66	MICROPTERYGIDÆ	578	Mutilla	664
Meroptera	534	Microrhopala	354	MUTILLIDÆ	664
Mesamia	103	Microrrhagus	282	Myas	204
Mesites	399	Microscapha	366	Mycetæa	258
<i>Mesitus</i>	667	Microtonus	367, 608	Mycetina	258
Mesochorus	618	Microvelia	150	Mycetochara	363
Mesocrina	616	Milesia	771	MYCETOPHAGIDÆ	264
Mesogramma	767	Milichiella	813	Mycetophagus	264
Mesoleius	622	Milyas	155	Mycetophila	724
Mesoleptus	624	Mineola	533	MYCETOPHILIDÆ	722
Mesoleuca	497	Mineus	137	Mycetoporus	247
Mesolomia	464	Miogryllus	192	Mycotretus	260
Mesopsocus	53	Miotropis	639	Mycterus	367
Mesorhaga	754	Mirax	612	Mydæa	790
Mesostenus	630	MIRIDÆ	159	MYDAIDÆ	749
<i>Mesothermus</i>	81	Miris	163	Mydas	749
Mesovelis	152	MISCOGASTERIDÆ	646	Myiocephalus	609
Metabletus	211	Miscophus	684	Myiolepta	765
Metachæta	782	Misogada	488	Myiophasia	775
Metachroma	343	Mixogaster	763	Myllæna	238
Metacœlus	621	Molanna	70	MYMARIDÆ	637
Metacosmus	747	Molophilus	706	Myndus	96
Metagea	646	Molorchus	327	Myocera	784
Metallus	591	Moma	447	Myodites	376
Metanema	507	Mompha	566	Myodocha	143
Metapelma	645	Monachus	342	Myopa	772
Metathorasa	473	<i>Monachus</i>	164	Myopsocnemis	52
Meteorus	608	Monalocoris	165	Myopsocus	53
Methoca	663	Monarthrum	401	Myospila	788
Methypostena	777	<i>Monecphora</i>	98	Myrmecina	656
Metriocnemus	714	<i>Monedula</i>	679	MYRMELEONIDÆ	62
Metopia	782	Monellia	116	Myrmica	658
<i>Metopon</i>	643	Monobia	669	Myrmosa	665
Metoponia	473	Monoblastus	623	MYRMOSIDÆ	665
Metrobates	151	Monocrepidius	285	Mystacides	70
Metrocampa	505	Monoctenus	588	Myzina	666

	PAGE.		PAGE.		PAGE.
MYZINIDÆ	666	<i>Nepticula</i>	567	<i>Nylanderia</i>	661
<i>Myzus</i>	118	<i>Nepytia</i>	502	NYPHALIDÆ	408
N.		<i>Nerice</i>	487	<i>Nymphula</i>	525
		NERTIIDÆ	167	<i>Nysius</i>	141
		<i>Neurigona</i>	755	<i>Nysson</i>	680
		<i>Neurocolpus</i>	163	NYSSONIDÆ	680
<i>NABIDÆ</i>	149	<i>Neurocordulia</i>	79	O.	
<i>Nacerdes</i>	367	<i>Neuroctena</i>	796		
<i>Nacophora</i>	504	<i>Neuroctenus</i>	140	<i>Obera</i>	336
<i>Nadata</i>	487	<i>Neuronia</i>	68	<i>Obrium</i>	327
NÆOGEIDÆ	152	<i>Neuroptynx</i>	63	<i>Ocellataria</i>	52
<i>Næogeus</i>	152	<i>Neuroterus</i>	598	<i>Ochteridæ</i>	166
<i>Nannia</i>	495	<i>Neurotoma</i>	581	<i>Ochtera</i>	806
<i>Nannothemis</i>	81	<i>Nezara</i>	136	<i>Ochterus</i>	166
<i>Nanops</i>	388	<i>Nicagus</i>	311	<i>Ochthiphila</i>	813
<i>Napomyza</i>	811	<i>Nicentrus</i>	395	<i>Octotemnus</i>	310
<i>Narvesus</i>	154	<i>Nicocles</i>	751	<i>Ocyptamus</i>	765
<i>Naso</i>	96	<i>Nigetia</i>	436	<i>Ocyptera</i>	779
<i>Natada</i>	512	<i>Nirmus</i>	44	<i>Ocypus</i>	240
NAUCORIDÆ	167	<i>Nisaxis</i>	235	<i>Odontæus</i>	315
<i>Nausibus</i>	262	<i>Nisoniades</i>	423	<i>Odontobracon</i>	614
<i>Neaspilota</i>	802	NITELIDÆ	684	<i>Odontomerus</i>	625
<i>Nebria</i>	200	<i>Nitidula</i>	272	<i>Odontomyia</i>	737
<i>Necrobia</i>	304	NITIDULIDÆ	271	<i>Odontonyx</i>	280
<i>Necrophorus</i>	229	<i>Nitzschia</i>	47	<i>Odontophyes</i>	580
<i>Nectarophora</i>	118	<i>Noctua</i>	453	<i>Odontosia</i>	487
<i>Nchalennia</i>	75	NOCTUIDÆ	443	<i>Odynerus</i>	669, 670
<i>Neides</i>	148	<i>Nodonota</i>	344	<i>Æbalus</i>	135
<i>Nemaloproctus</i>	755	<i>Nola</i>	435	<i>Æcanthus</i>	192
<i>Nematus</i>	590	<i>Nola</i>	436	<i>Æcetina</i>	70
<i>Nemobius</i>	191	NOLIDÆ	435	<i>Æcetina</i>	69
<i>Nemognatha</i>	374	<i>Nomada</i>	692	<i>Æciacus</i>	159
<i>Nemopoda</i>	804	NOMADIDÆ	601	<i>Oecleus</i>	96
<i>Nemoria</i>	499	<i>Nomiaephagus</i>	665	<i>Æcophora</i>	562
<i>Nemosoma</i>	276	<i>Nomius</i>	202	ÆCOPHORIDÆ	560
<i>Nemotelus</i>	738	<i>Nomophila</i>	523	<i>Oedalea</i>	759
<i>Nemoura</i>	41	<i>Nomotettix</i>	178	<i>Ædancala</i>	143
<i>Neoscia</i>	768	<i>Nonagria</i>	461	<i>Ædaspis</i>	801
<i>Neoborus</i>	164	<i>Nortonia</i>	669	ÆDEMERIDÆ	367
<i>Neocatalaccus</i>	643	NOSODENDRIDÆ	278	<i>Ædionychis</i>	350
<i>Neoclytus</i>	329	<i>Nosodendron</i>	278	<i>Oeme</i>	326
<i>Neocælidia</i>	106	<i>Nothosympycnus</i>	755	<i>Oenæ</i>	576
<i>Neompheria</i>	723	<i>Nothus</i>	367	<i>Oestodes</i>	289
<i>Neoglaphyoptera</i>	724	<i>Notiophilus</i>	200	ÆSTRIDÆ	773
<i>Ncoharmonia</i>	254	<i>Notiphila</i>	805	<i>Æstrophasia</i>	777
<i>Neomastix</i>	388	<i>Notedonta</i>	487	<i>Æstrus</i>	774
<i>Neomysia</i>	254	NOTODONTIDÆ	485	<i>Ogdoconta</i>	470
<i>Neonympha</i>	412	<i>Notoglossa</i>	682	<i>Olene</i>	490
<i>Ncoperla</i>	40	<i>Notogonia</i>	683	<i>Olethreutes</i>	539
<i>Neopus</i>	585	<i>Notonecta</i>	169	<i>Olfersia</i>	814
<i>Neoscleroderma</i>	668	NOTONECTIDÆ	169	<i>Oliarus</i>	95
<i>Neotettix</i>	178	<i>Notopygus</i>	624	<i>Olibrus</i>	251
<i>Neotiglossa</i>	135	<i>Nototrachys</i>	620	<i>Oligia</i>	448
<i>Neotypus</i>	632	<i>Notoxus</i>	372	<i>Oligolochus</i>	395
<i>Nepa</i>	157	<i>Notozus</i>	668	<i>Oligomercus</i>	305
<i>Nephanes</i>	250	<i>Nudobius</i>	241	<i>Oligosthenus</i>	650
<i>Nephelodes</i>	458	NYCTEOLIDÆ	436	<i>Olisthopus</i>	209
<i>Nephopteryx</i>	534	<i>Nyctobates</i>	358	<i>Olophrum</i>	249
<i>Nephrocerus</i>	762	<i>Nyctobia</i>	494		
NEPIDÆ	157				

138 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Omalus	668	Orthocis	310	Pæctes	470
Omethes	299	Orthocladus	714	Pæderillus	243
Ommatius	752	Orthodes	460	<i>Paderus</i>	243
Ommatostola	461	Orthofidonia	500	<i>Pardisca</i>	540
Omophron	198	Orthopelma	618	Pagasa	149
Omosita	273	Orthoperus	252	Palamius	246
Omphalocera	527	Orthopleura	304	Paleacrita	504
Oncerometopus	162	<i>Orthops</i>	164	Pallodes	273
Oncerotrachelus	153	Orthosia	465	Palloptera	797
Oncideres	335	Orthosoma	323	Palpomyia	712
Oncocnemis	451	Orthostethus	287	Palthis	483
Oncodes	744	Orthotylus	161	Paltodora	554
Oncodocera	746	ORYSSIDÆ	595	Pamera	143
<i>Oncognathus</i>	164	Oryssus	595	Pammegischia	637
Oncometopia	100	OSCINIDÆ	807	Pamphila	421
Oncomyia	772	Oscinis	809	Pamphilus	581
Oncopeltus	140	Osmia	697	Panagæus	202
Oncophorus	46	Osmoderma	322	Panapoda	478
<i>Oncotylus</i>	160	<i>Osprynchotus</i>	630	Panchlora	175
Oneida	532	Otidocephalus	385	Panchrysia	469
Onthophagus	314	Otiocerus	97	Pandeletejus	379
Onthophilus	269	OTIORHYNCHIDÆ	378	Pandemis	550
Onychylis	385	Otiorhynchus	379	Pangæus	133
Oodes	213	Oxacis	368	Pangonia	739
Opatrinus	360	OXYBELIDÆ	682	Pangrapta	474
Opheltes	618	Oxybelus	682	Paniscus	618
Ophiderma	93	Oxycera	738	Panorpa	65
Ophiogomphus	76	Oxycnemus	273	Panscopus	379
Ophion	621	Oxylæmus	261	Pantala	79
Ophyra	789	Oxyomus	314	Panteles	625
Opius	606	Oxypoda	238	Panthea	442
Opisthoneura	588	Oxyporus	247	PANTHEIDÆ	442
Opostega	568	Oxyptilus	536	PANURGIDÆ	691
Opresus	232	Oxystoglossa	688	Panurginus	691
Opsebius	744	Oxytelus	248	Panzeria	779
<i>Opsicælus</i>	154	Oxytorus	624	Paonias	430
Opsidia	782	Ozognathus	305	Papaipema	462
Orchelimum	189	Ozophora	144	Papilio	419
Orchesella	35			PAPILIONIDÆ	419
Orchesia	366		P.	Papirius	35
Orchestes	388			Parabolocratus	103
Orectoderus	165	Pachnæus	379	Paracalocoris	163
Oreta	493	Pachnobia	453	Paraclemensia	575
<i>Oreilomorpha</i>	607	Pachybrachys	341	Paradidyma	782
<i>Orgilus</i>	610	Pachydiplax	82	Paragus	764
Ormenis	96	Pachygaster	738	Paralechia	556
Ormyrus	650	Pachylobius	383	Paralimna	806
Ornithobius	46	Pachymeria	759	Paralipsa	532
Ornithomyia	813	Pachynematus	589	Parallelia	478
Ornix	572	Pachyneuron	642	Parallelomma	794
Orocharis	193	Pachyonychus	349	Paramesius	651
Oropeza	708	<i>Pachyophthalmus</i>		<i>Paramesus</i>	103
Orphilus	267	Pachyphancs	384	Parandra	323
Orphulella	180	Pachyprotasis	585	Paranomus	289
Orsillus	141	Pachypsylla	109	<i>Paranothyreus</i>	682
Orsodachna	338	Pachyrhina	709	Paraphia	502
ORTALIDÆ	798	Pachyscelis	296	Paranlagia	778
Orthaltica	352	Pachyzancla	523	Paraprosena	784
Orthezia	122	Packardia	513	Paraselandria	583

	PAGE.		PAGE.		PAGE.
Parasierola	667	Pericompsus	204	<i>Philhydrus</i>	226
<i>Parasiobla</i>	583	Peridroma	454	Philobia	501
Parastichtis	465	Perigaster	393	Philometra	482
Parataxonus	582	Perigea	448	Philonthus	240
Paratenetus	361	Perigenes	143	Philonyx	598
Paratenodera	177	Perigona	209	Philopotamus	71
Paratettix	178	PERILAMPIDÆ	647	<i>Philopsia</i>	495
Paratiphia	666	Perilampus	647	PHILOPTERIDÆ	43
Paraxenetus	165	Perilitus	608	Philosamia	431
Parectopa	572	Perilloides	137	Philothermus	261
Parharmonia	518	<i>Perillus</i>	137	Phiprosopus	472
Parlatoria	130	Periplaneta	175	Phlegethontius	428
PARNIDÆ	278	Peripsocus	53	Phlegyas	142
Paromalus	270	Periseinus	667	Phlepsius	105
Paroxya	185	Perispasta	524	Phlæophagus	399
Paivaga	807	Perissopterus	640	Phlæosinus	404
Pasimachus	200	Perithemis	82	Phlæothrips	84
Passalæcus	676	Perithous	627	Phlæotribus	403
Passalus	311	Peritrechus	144	Phlæotrya	365
Patrobus	204	Perla	40	Phlyctænia	524
Paururus	593	Perlesta	40	Phoberia	478
Pediacus	262	PERLIDÆ	39	Phobetron	512
Pedicella	737	Peronea	547	Pholisora	423
Pedicia	708	Perothops	282	Pholus	426
PEDICULIDÆ	85	<i>Peristenus</i>	609	<i>Phora</i>	761
Pediculus	85	Petalium	306	Phorantha	775
Pediopsis	102	Petrophora	497	Phorbia	791
Pegomyia	792	Pezomachus	631	Phorichæta	782
Pelastoneurus	757	Phæcasiophora	540	PHORIDÆ	761
PELECINIDÆ	654	Phædon	346	Phormia	787
Pelecinus	654	Phænonotum	228	Phorocera	780
Pelecocera	767	Phæocyma	479	Phorodon	118
Pelocoris	167	Phæogenes	632	Phortica	810
Pelecotoma	375	PHALACRIDÆ	251	Photinus	298
Pelenomus	393	Phalacrus	251	Photomorphus	664
Peleteria	783	Phalænostola	474	Photopsis	664
Pelina	806	Phaleria	361	Photuris	298
Pelidnora	320	Phalonia	551	<i>Phoxopteris</i>	544
<i>Peliopelta</i>	142	Phanæus	313	Phragmatobia	440
<i>Pelogonus</i>	166	Phanerotoma	612	Phryganea	68
Pemphigus	114	Pharurus	654	PHRYGANEIDÆ	68
Pemphredon	675	Pharmacis	552	Phthinolophus	547
PEMPHREDONIDÆ	675	Phasgonophora	649	Phthiria	746
Pentagonica	212	Phasioclista	775	Phthirius	85
Pentagramma	98	Phasiops	784	Phthorimæa	557
Pentaria	369	PHASMIDÆ	177	Phurys	479
<i>Pentatoma</i>	134	Pheidole	658	Phyciodes	409
PENTATOMIDÆ	132	Pnellopsis	358	Phygadeuon	632
Penthe	364	Phenacoccus	123	Phylethus	362
Penthelispa	261	Phengodes	298	Phyllaphis	115
Penthima	101	Phenolia	273	Phyllobænus	303
Penthoptera	708	Pheosia	487	Phyllobrotica	349
Peoria	536	Phigalia	505	Phyllocnistis	573
Pepsis	673	Philænus	99	Phyllodecta	346
Perenoptilota	497	<i>Philampelus</i>	426	Phyllogaster	702
Perdita	691	PHILANTHIDÆ	677	Phyllomyza	812
Peribalus	134	Philanthus	678	Phyllonoryter	568
Periclista	591	Philenome	573	Phylloseelis	95
Periclistus	597	Philhydrus	227	Phylloseirtus	193

140 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Phyllotreta	354	Platylabus	632	Pæcilostoma	582
Phyllotrox	384	Plathypena	484	<i>Pæcilostomidea</i>	582
Phylloxera	113	Platycentropus	68	Pogonocherus	334
Phylocentropus	71	Platycerus	311	Pogonosoma	751
Phymaphora	258	Platychirus	765	Pogonus	204
Phymata	157	Platycotis	93	Polemius	300
PHYMATIDÆ	157	Platydema	361	Polidea	776
<i>Phymatocera</i>	590	Platygaster	652	Polistes	671
Phymatodes	325	PLATYGASTERIDÆ	652	Polistomyia	775
Phyrdenus	391	Platygerrihus	646	Pollenia	786
Physatocheila	149	Platymetopius	103	Polyblastus	623
Physcus	640	Platynota	549	<i>Polycentropus</i>	71
Physocephala	772	Platynus	207	Polychrosis	538
Physocnemum	325	Platypalpus	758	Polychrysia	469
Physonota	355	Platypeza	762	Polycinetis	624
Physostegania	500	PLATYPEZIDÆ	762	Polyclasis	297
Physostomum	47	Platyphylax	69	Polydrosus	380
Phytalus	319	Platyptera	55	Polyergus	663
<i>Phytocoris</i>	163	<i>Platypteryx</i>	493	Polygnotus	652
Phytodietus	629	Platyptilia	536	Polygrammata	446
Phyton	327	Platypus	400	Polyhymno	557
Phytonomus	381	Platysenta	447	Polylepta	723
Phytophaga	580	Platysoma	269	Polymitarcys	37
Phyxelis	379	Platystethus	248	Polynema	637
Piazorhinus	389	<i>Platythyris</i>	515	Polyphylla	319
<i>Piazurus</i>	392	Platyura	723	Polypleurus	358
PIERIDÆ	417	Plea	170	Polypsocus	53
Pieris	417	Plecia	734	Polysphincta	625
Piesma	148	Plectiscus	616	Polystæchotes	60
Piezocorynus	405	Plectronemia	71	Pomphopœa	374
Piezostethus	158	Plegaderus	270	<i>Pompilidæ</i>	672
Pigritia	562	<i>Plemyria</i>	496	Pompilus	673
Pilocrocis	522	Plenoculus	684	<i>Pompilus</i>	674
Pilophorus	162	Pleonectyptera	472	Pontania	589
Pilopius	236	Plesiastina	722	Ponera	656
Pimpla	626	Plesiobaris	394	Porizon	617
Pinacodera	211	Pleurophorus	314	Porosagrotis	455
Pinipestis	533	<i>Plinthodes</i>	380	Porpe	553
Pinnaspis	127	Plocamus	395	Porphyrops	755
Pinophilus	245	Plocetes	389	Porphyrosela	571
Piophila	804	Plochionus	211	Praon	606
Pipiza	764	Plodia	535	Prasocuris	344
PIPUNCULIDÆ	762	Plephora	563	Prenolepis	660
Pipunculus	762	Ploiariola	153	Priocera	302
Pissodes	383	Plusia	469	Priocycla	508
Pissonotus	97	Plusiodonta	468	Prionapteryx	528
Pityobius	288	Plutella	553	<i>Prionidus</i>	156
Pityophthorus	401	Pnirontis	154	Prionochæta	229
Plagia	778	Poaphila	479	Prionocyphon	280
<i>Plagioderæ</i>	346	Pocadius	273	Prionomerus	389
Plagiognathus	160	Podabrus	299	<i>Priononyx</i>	677
Plagionimicus	468	Podapion	381	Prionoxystus	516
Plagionotus	328	<i>Podisus</i>	137	Prionus	324
Plagiotoma	801	<i>Podops</i>	132	Priophorus	588
<i>Plagiotrypes</i>	636	Podosesia	517	Pristaulacus	637
Plagodis	506	Podura	36	Pristiphora	589
Platagrotis	452	Pæcilocapsus	165	Pristocera	668
Plateros	297	Pæcilonta	292	Pristomerus	617
Plathemis	81	Pæciloscytus	164		

	PAGE.		PAGE.		PAGE.
<i>Probolus</i>	635	<i>Pseudomethoca</i>	665	<i>Ptinus</i>	305
<i>Proceratium</i>	656	<i>Pseudoperla</i>	40	<i>Ptochiomera</i>	144
<i>Prochyliza</i>	804	<i>Pseudopigritia</i>	562	<i>Ptomophagus</i>	230
<i>Procladius</i>	713	<i>Pseudopomala</i>	182	<i>Ptosima</i>	294
<i>Proctacanthus</i>	752	<i>Pseudopsis</i>	247	<i>Ptychoptera</i>	708
<i>Proctotrypes</i>	652	<i>Pseudopyrellia</i>	787	<i>Publilia</i>	93
PROCTOTRYPIDÆ	652	<i>Pseudosiobla</i>	583	<i>Pulex</i>	702
<i>Prodenia</i>	451	<i>Pseudotephritis</i>	800	PULICIDÆ	702
<i>Prodoxus</i>	577	<i>Pseudothyatira</i>	485	<i>Pulvinaria</i>	124
<i>Progomphus</i>	77	<i>Psila</i>	805	<i>Purpuricenus</i>	328
<i>Proleucoptera</i>	573	PSILIDÆ	804	<i>Pycnoderes</i>	165
<i>Prolimacodes</i>	512	<i>Psilocephala</i>	748	<i>Pycnomerus</i>	261
<i>Promachus</i>	753	<i>Psilocera</i>	643	<i>Pycnophus</i>	231
<i>Promethus</i>	622	<i>Psilocorsis</i>	561	<i>Pycnopsycha</i>	68
<i>Prometopia</i>	273	<i>Psilodera</i>	596	<i>Pygæus</i>	144
<i>Pronuba</i>	577	<i>Psilomastix</i>	636	<i>Pygarctia</i>	441
<i>Prosacantha</i>	653	<i>Psilopa</i>	806	<i>Pygolampis</i>	154
<i>Prosopis</i>	694	<i>Psilophrys</i>	644	<i>Pygostolus</i>	607
<i>Prospalta</i>	640	<i>Psilopodinus</i>	754	<i>Pyractomena</i>	298
<i>Prospherysa</i>	781	<i>Psilopus</i>	754	PYRALIDÆ	520
PROSOPIDÆ	694	<i>Psilota</i>	764	<i>Pyrallis</i>	527
<i>Protandrena</i>	691	<i>Psilotanypus</i>	713	<i>Pyrameis</i>	411
<i>Protapanteles</i>	610	<i>Psinidia</i>	182	<i>Pyrausta</i>	524
<i>Protenor</i>	147	<i>Psithrus</i>	698	<i>Pyrgota</i>	799
<i>Protenthes</i>	713	PSOCIDÆ	51	<i>Pyrgus</i>	423
<i>Proteoteras</i>	543	<i>Psocus</i>	53	<i>Pyrochroa</i>	373
<i>Prothalia</i>	365	<i>Psomus</i>	392	PYROCHROIDÆ	373
<i>Protheca</i>	307	<i>Psorophora</i>	716	<i>Pyromorpha</i>	514
<i>Prothymia</i>	472	<i>Psyche</i>	510	PYROMORPHIDÆ	514
<i>Protocalliphora</i>	787	PSYCHIDÆ	510	<i>Pyrophæna</i>	765
<i>Protophormia</i>	787	<i>Psychoda</i>	710	<i>Pyrophila</i>	450
<i>Protostelis</i>	695	PSYCHODIDÆ	710	<i>Pyropyga</i>	297
<i>Protothyrcopus</i> ...|..	681	<i>Psychomia</i>	71	<i>Pyrrharctia</i>	440
<i>Psallus</i>	160	<i>Psychomorpha</i>	442	<i>Pyrrhia</i>	464
<i>Psammodius</i>	314	<i>Psylla</i>	109	PYRRHOCORIDÆ	140
<i>Psammoleon</i>	62	PSYLLIDÆ	108	<i>Pyrrhomelecta</i>	693
<i>Psaphidia</i>	452	<i>Psylliodes</i>	354	<i>Psyche</i>	510
<i>Psectra</i>	61	<i>Psyllobora</i>	254	PYTHIDÆ	367
<i>Pselaphephila</i>	794	<i>Psyllopsis</i>	108	<i>Pytho</i>	367
PSELAPHIDÆ	233	<i>Ptecticus</i>	736		
<i>Pselaphus</i>	236	<i>Ptenidium</i>	250		
<i>Psen</i>	675	<i>Pterallastes</i>	770		
<i>Psenoccrus</i>	332	<i>Pterocolus</i>	378		
<i>Psephenus</i>	278	<i>Pterodella</i>	52		
<i>Pseudagenia</i>	672	PTEROMALIDÆ	641		
<i>Pseudanaphora</i>	577	<i>Pteromalus</i>	643		
<i>Pseudanthonomus</i> ...	388	<i>Pteronarcys</i>	39		
<i>Pseudonthophilus</i> ...	678	<i>Pteronurus</i>	590		
<i>Pseudanthracia</i>	480	PTEROPHORIDÆ	536		
<i>Pseudebæus</i>	301	<i>Pterophorus</i>	537		
<i>Pseudobaris</i>	395	<i>Pterophylla</i>	187		
<i>Pseudochæta</i>	781	<i>Pterostichus</i>	204		
<i>Pseudococcus</i>	124	<i>Ptilinus</i>	307		
<i>Pseudocrabro</i>	681	<i>Ptilium</i>	249		
<i>Pseudogalleria</i>	540	<i>Ptilodactyla</i>	280		
<i>Pseudolfersia</i>	814	<i>Ptilodexia</i>	785		
<i>Pseudomedon</i>	245	PTINIDÆ	304		
<i>Pseudometagea</i>	646	<i>Ptinobius</i>	646		

Q.

<i>Quadrigena</i>	622
<i>Quedius</i>	239

R.

<i>Rachela</i>	494
<i>Rachcospila</i>	499
<i>Ranatra</i>	157
<i>Raphia</i>	443
<i>Raphiptera</i>	528
<i>Raphitelus</i>	643
<i>Rasahus</i>	155
<i>Recurvaria</i>	556
REDUVIIDÆ	152
<i>Reduviolus</i>	149
<i>Reduvius</i>	154

	PAGE.		PAGE.		PAGE.
Seira	35	Smicra	649	Spragueia	473
Selandria	583	Smicronyx	384	<i>Spudastica</i>	619
<i>Selenia</i>	507	Smilia	92, 256	Stachyocnemus	147
Selenophorus	215	Smodicum	325	Stagmatophora	566
Seleucus	632	Smynthurus	34	Stagmomantis	175
Seydosomea	503	Solenaspis	596	STAPHYLINIDÆ	236
<i>Semasia</i>	542	<i>Solenius</i>	681	Staphylinus	239
<i>Semiophora</i>	452	Solenopsis	657	Statira	364
Semioscopsis	562	Solenozopheria	602	Stegana	810
Semiotellus	646	Solubea	135	<i>Steganoptycha</i>	543
Senotainia	778	Somatochlora	79	Stelidata	272
Senta	448	Soronia	273	STELIDIDÆ	695
Seoptera	800	Spalangia	641	Stelis	695
Sepedon	797	Spallanzania	783	Stenamma	658
SEPSIDÆ	803	Spangbergiella	103	Stenaspilates	508
Sepsis	804	Spanotecnus	624	Stenelmis	279
Sepsisoma	800	Sparganthis	548	Stenispa	355
Serica	317	Sparinus	270	<i>Stenobothrus</i>	180
Sericoderus	252	Sparnopolius	747	Stenocranus	97
Sericomyia	768	Sparsion	653	Stenodema	162
Sericosomus	289	Spathius	614	Stenodynerus	670
<i>Sericostoma</i>	69	Spermophagus	356	Stenolophus	215
SERICOSTOMATIDÆ	69	Sphæridium	227	Stenoma	560
Serropalpus	365	Sphærocera	796	STENOMATIDÆ	560
Sesia	519	Sphæroderus	199	Stenomesius	639
SESIIDÆ	516	<i>Sphærophthalma</i>	664	Stenomyia	800
<i>Sctodes</i>	70	Sphærophoria	767	<i>Stenophylax</i>	68
Setomorpha	574	Sphæropyx	612	Stenopoda	154
Setiostoma	553	Spharagemon	182	Stenoscelis	399
SIALIDÆ	56	SPHECIDÆ	676	Stenosphenus	328
Sialis	57	Sphecius	679	Stenotarsus	258
Sibine	511	Sphecodes	689	Stenotrachelys	502
Sicya	505	Sphecodina	425	Stenotus	164
Sigalphus	612	Sphecomyia	771	STENOXENIDÆ	711
Silis	299	Sphecophaga	622	Stenoxenus	711
Silpha	229	Sphegina	767	Stenus	242
SILPHIDÆ	228	Sphenophorus	397	<i>Stephania</i>	151
Silvanus	262	Sphenostethus	324	STEPHANIDÆ	604
SIMULIDÆ	735	Sphex	676	Stephanoderus	402
Simulium	735	<i>Spilocryptus</i>	630	Stephanus	604
Sinea	157	<i>Spilosoma</i>	439	Stethaulax	132
<i>Sinophorus</i>	619	SPHINDIDÆ	311	Stethorus	257
Sinoxylon	308	Sphindus	311	Sthenopsis	578
Siphocoryne	118	SPHINGIDÆ	424	Stibadium	468
Siphoplaga	778	Sphinx	428	Stichopogon	750
Siphona	778	Sphragisticus	144	Stictica	679
Siphonella	809	Sphyracephala	805	Stictocephala	91
Siphosturmia	778	Spilochalcis	649	<i>Stictocephala</i>	800
Sirex	593	Spilogaster	790	Stigmatomma	656
Sisyrosea	512	Spilographa	801	Stigmella	567
SIRICIDÆ	593	Spilomena	676	Stigmus	675
Sirthena	155	Spilomyia	771	Stilbosis	566
Sitodrepa	305	Spilonota	547	Stilicopsis	245
Sitones	380	Spilosoma	439	Stilicus	245
Sitotroga	554	Spilotus	365	Stilpnus	632
Sixeonotus	165	Spogostylum	745	Stiretrus	137
SMERINTHIDÆ	430	SPONDYLIDÆ	323	<i>Stiphrosoma</i>	162
Smerinthus	430	Spongiphora	171	STIZIDÆ	679

144 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
Stobæra	97	Systema	353	<i>Tephroclystia</i>	495
Stomoxys	788	Systæchus	746	<i>Tephronota</i>	799
Strangalia	330	<i>Systraliotus</i>	165	<i>Teras</i>	547
Stratægus	321	Systropus	747	Terias	419
Stratiomyia	737			Termes	49
STRATIOMYIDÆ	736			TERMITIDÆ	49
Straussia	801			Tetanocera	796
Strigoderma	320	T.		Tetanolita	483
Strobisia	559	TABANIDÆ	738	Tetanops	800
Strongylium	362	Tabanus	740	Tetartopeus	244
Strongylicoris	162	Tabuda	748	Tetrachæta	792
Strongylogaster	584	Tachina	781	Tetracis	508
Strongylogastroidea	583	TACHINIDÆ	774	Tetraganoderus	210
Strongylopus	160	Tachinomyia	781	Tetragoneuria	79
Strophosomus	380	Tachinus	246	Tetralonia	693
Sturmia	781	Tachycellus	216	Tetralopha	532
Stygeropis	709	Tachydromia	758	Tetramerinx	792
Stylogaster	772	Tachygonus	392	Tetramorium	659
STYLOPIDÆ	376	Tachyporus	246	Tetraneura	114
<i>Stylopyga</i>	174	Tachypterus	386	<i>Tetraneura</i>	582
Sunius	245	<i>Tachyptilia</i>	557	Tetraopes	337
Symmerista	488	Tachysphex	683	Tetrastichus	639
<i>Symmerus</i>	722	Tachytes	683	Tetratoma	364
Symmorphus	669	Tachytrechus	757	Tetrops	337
Sympetrum	81	Tachys	203	Tettigea	88
Symphorobius	61	Tachyusa	238	Tettigidea	179
Sympherta	623	Tacoma	534	Tettigoniella	100
Symphobus	624	Tæniocampa	460	TETTIGONIELLIDÆ	100
Symphora	366	Tæniopteryx	40	<i>Tettix</i>	178
Symphoromyia	744	Tanagma	554	Tetyra	132
Symphysa	521	Tanymecus	379	Teuchocnemis	770
Sympiesis	638	Tanypus	713	Teucholabis	706
<i>Symplecta</i>	707	Tanysphyrus	385	Texania	291
Sympycnus	755	Tanystropha	616	Thalassomyia	713
Synchita	260	Taphrocera	205	<i>Thalassa</i>	627
Synchlora	499	Tapinoma	660	Thamnotettix	105
Synchroa	364	Taracticus	751	Thanasimus	303
Syndyas	758	Taxonus	582	Thaenoclerus	220
Syneches	758	<i>Taxonus</i>	583	Tharops	281
<i>Syneches</i>	631	Telagrion	76	Thaumatopsis	531
Syneda	475	Telamona	61	Thecla	414
Synelys	498	Telea	432	Theisoa	566
Synergus	597	Telenomus	657	Thelaira	785
Syneta	338	Teleonomia	149	Thelairoides	785
<i>Synhalonia</i>	693	Telenbanus	23	Thelia	91
Synæcetes	622	Telephorus	299	Thelydrias	300
<i>Synothyrcopus</i>	681	Telmatophilus	264	Theresia	785
Syntemna	723	Telphusa	555	Thereva	748
Syntomaspis	650	<i>Temclucha</i>	617	THEREVIDÆ	747
SYNTOMIDÆ	434	Temnopsophus	301	Theretra	426
Syntomosphyrum	639	Temnostoma	771	Therina	505
Syrbula	179	Tenaga	576	<i>Theriopectus</i>	740
Syritta	770	Tenebrio	359	Thermobia	34
SYRPHIDÆ	763	Tenebrioides	276	Thermonectes	223
Syrphoctonus	621	TENEBRIONIDÆ	357	Theronia	626
Syrphus	766	TENTHREDINIDÆ	581	Thersilochus	617
Sysphincta	656	Tenthredo	585	Thicanus	371
Syssaura	508	Tenthredopsis	585	Thinusa	237
		Tephritis	802	Thionea	96
		Tephrochlamys	795		

	PAGE.		PAGE.		PAGE.
Thinophilus	756	Tragidion	327	<i>Triptogon</i>	430
Tholeria	523	Traginops	813	Trirrhabda	346
THIRIPIDÆ	83	Tragosoma	323	Tritoma	260
Thrips	84	Trama	480	Tritoxa	799
THROSCIDÆ	290	Tramea	79	Trissolcus	653
Throscus	290	<i>Trapezonotus</i>	144	Trochalopoda	132
Thyanta	136	Trechus	204	<i>Trochilium</i>	518
Thyatira	485	Tremex	594	Trochobola	705
THYATIRIDÆ	485	Trepobates	151	Troctes	51
Thymalus	276	Triachora	778	Trogoderma	266
THYNNIDÆ	663	Triachus	342	<i>Trogomorpha</i>	636
THYRECORIDÆ	138	Triænodes	70	Trogophlæus	248
Thyreocoris	138	Tribolium	360	Trogosita	276
Thyreodon	621	Trichacis	652	TROGOSITIDÆ	276
<i>Thyreopus</i>	681	Trichiosoma	586	Trogus	636
THYRIDÆ	515	Trichistus	621	Tropideres	405
Thyridopteryx	510	Trichius	322	Tropidia	769
Thyris	515	Trichiusa	238	Tropidopria	651
Thysanocnemis	389	Trichobaris	394	Tropidosteptes	164
Thysanoes	403	Trichocera	707	Trox	316
Tibicen	88	Trichodectes	46	Truxalis	179
Tillimorpha	329	TRICHOECTIDÆ	46	Trypanisma	556
Timulla	665	Trichodes	302	Trypeta	801
Tinea	575	Trichodesma	306	<i>Trypetes</i>	697
TINEIDÆ	567	Trichodezia	496	TRYPETIDÆ	801
Tineola	576	Trichogramma	638	Trypherus	300
<i>Tingis</i>	149	TRICHOGRAMMIDÆ	638	Tryphon	622
TINGITIDÆ	148	Tricholita	460	Trypopitys	306
Tiphia	666	Trichonta	724	TRYPOXYLIDÆ	684
TIPHIIDÆ	665	Trichopepla	134	Trypoxylon	684
Tipula	709	Trichophaga	574	Tychea	113
TIPULIDÆ	703	Trichophora	783	Tychius	389
Tischeria	573	Trichopoda	775	Tychus	235
Tlascala	534	<i>Trichoporus</i>	641	Tyloderma	391
Tmesiphorus	236	Trichopria	651	Tylonotus	327
<i>Tmetocera</i>	547	TRICHOPTERYGIDÆ	249	Tymnes	344
Tolyte	492	Trichopteryx	250	Tympanophorus	240
Tomarus	264	Trichoptilus	536	Typhlocyba	107
Tomaspis	98	Trichotaphe	559	Typhcea	265
Tomicus	403	Tricyphona	708	Typocerus	331
Tomocerus	35	Tridactylus	191	Typophorus	343
Tomoderus	371	Tridymus	646	Tyrus	236
Tomostethus	591	Triepeolus	692	Tytthonyx	290
Tomoxia	369	Triga	249		
TORTRICIDÆ	537	TRIGONALIDÆ	667		
Tortricidia	513	Trigonalys	667		
Tortrix	550	Trigonophora	464		
TORYMIDÆ	650	Trigonotylus	163		
Torymus	650	Trimerotropis	182		
Tosale	527	Trimicra	707		
Toxidnum	520	Trimiomelba	233		
Toxophora	747	Trimiopectus	233		
Toxorrhina	705	Trineura	762		
Toxotropis	405	Trinoton	47		
Toxotus	330	Triodonta	769		
Trachea	450	Trioxys	605		
Trachelus	595	Triozæ	110		
Trachoma	552	Triphelps	158		
Trachysectus	245	Triptogon	425		

U.

Ufeus	456
Ulolonche	457
Uloma	360
Ulomorpha	707
Ululodes	63
Upis	358
Uranotænia	721
Urellia	803
<i>Urogaster</i>	611
Urosigalphus	612
Utetheisa	438

146 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.		PAGE.
V.		Xanthosarus	696	Xylotrechus	328
Valentinia	563	Xanthoteras	598	Xyltinus	306
Valgus	322	Xanthotype	506		
VanDuzee	93	Xanthus	389	Y.	
Vanessa	411	Xenetus	165	Yponomeuta	552
Venusia	496	Xenodusa	238	YPONOMEUTIDÆ	552
Vespa	671	Xenoglossa	694	Ypsia	479
VESPIDÆ	671	Xenorhipis	293	Ypsolophus	559
Vipio	615	Xenos	377		
Vitula	535	Xenotoma	651	Z.	
Volucella	768	Xerophlœa	101		
		Xestocephalus	103		
W.		Xestocrabro	681	Zabrotes	357
Walshia	567	Xestocis	310	Zaglyptus	391
Wanda	532	Xiphidium	189	Zaitha	168
Winthemia	782	Xiphura	709	Zale	479
Woolastoniella	399	Xiphidria	593	Zanclognatha	481
Wyeomyia	721	XIPHYDRIDÆ	593	Zele	606
		Xorides	625	Zelia	784
X.		Xyela	580	Zelleria	553
Xabea	193	XYELIDÆ	580	Zelus	155
Xanthidium	692	Xyleborus	402	Zemiodes	624
Xanthia	464	Xylesthia	574	Zemiotes	608
Xanthochroa	368	Xylina	460	Zethus	669
Xanthogramma	767	Xylocopa	698	Zeugophora	338
Xantholinus	241	XYLOCOPIDÆ	698	Zeuzera	515
Xantholobus	93	Xylocrabro	681	Zilora	365
Xanthomelanodes	777	Xylomyia	743	Zodion	772
Xanthonia	342	Xylonomus	625	Zonantes	372
Xanthopastis	468	Xylophagus	743	Zonitis	374
Xanthoptera	473	Xylophasia	449	Zopheroteras	598
Xanthorhoe	497	Xylopinus	359	Zophodia	534
		Xyloryctes	321	Zygogramma	345
		Xylota	770	Zygonicros	392
		Xyloteris	402	Zyras	238

TABLE OF CONTENTS

Of the Report of 1909

	PAGE.
Part I—Insects, their Classification and Distribution.....	15-32
Chapter 1—Introductory	15
" 2—Classification and Development	19
" 3—Faunal Characteristics	27
" 4—Benefits and Injuries Caused by Insects.....	31
Part II—Systematic List	33
Order Thysanura	33
" Ephemera	37
" Plecoptera	39
" Mallophaga	43
" Isoptera	49
" Corrodentia	51
" Platyptera	55
" Neuroptera	59
" Mecoptera	65
" Trichoptera	67
" Odonata	73
" Thysanoptera	83
" Parasitica	85
" Homoptera	87
" Hemiptera	131
" Dermoptera	171
" Orthoptera	173
" Coleoptera	195
" Lepidoptera	407
" Hymenoptera	579
" Siphonoptera	701
" Diptera	703
Index to Localities	815
Explanations of Abbreviations and Acknowledgments.....	837
Illustrations	849
Summary	850
Index to Families and Genera	851

INDEX

Of the Technical and Common Names of Plants found in the Report of 1910

	PAGE		PAGE
Abama	338	Anaphalis	767
Abutilon	549	Andromeda, Privet	618
Acalypha	526	Andropogon	182
Acer	544	Anemone	452
Acerates	651	Canada	452
Achillea	730	Rue	454
Acnida	434	Tall	452
Acorus	317	Wood	453
Acroanthes	376	Angelica	599
Actæa	451	Antennaria	766
Actinomeris	771	Anthemis	730
Adam-and-Eve	378	Anychia	442
Adder's Mouth	376	Apios	512
Adder's Tongue	122	Aplectrum	378
Yellow	346	Apocynum	645
Adiantum	130	Apple, Crab	486
Adicea	415	Aquilegia	452
Adopogon	719	Aralia	589
Aeschynomene	498	Arbutus	619
Agastache	666	Arctium	728
Agrimonia	483	Arctostaphylos	620
Agrimony	483	Arenaria	437
Agrostemma	436	Arethusa	372
Alder	402	Arisaema	314
Black	540	Aristida	217
Aletris	347	Aristolochia	418
Alfalfa	496	Aronia	487
Alisma	168	Arrow Arum	315
Allium	344	Arrowhead, Common	169
Alnus	402	Long-beaked	171
Alopecurus	222	Sessile-fruited	171
Alsine	436, 438	Grass-leaved	172
Alum root	471	Subulate	172
Amaranth, Coast	433	Arrow-grass, Seaside	166
Great	433	Arrow-wood	709
Amaranthus	433	Artemisia	775
Ambrosia	725	Arum, Arrow	315
Amelanchier	488	Asclepias	647
Anmodenia	441	Ascyrum	552
Ammophila	228	Asarum	418
Amphicarpon	188	Ash	635
Amygdalus	490	Ash, Prickley	518

	PAGE
Asimina	448
Aspen, American	392
Large-toothed	392
Asphodel, Bog	338
Viscid	337
Aspidium	133
Asplenium	132
Aster	754
Flat-topped	763
Golden	741
Stiff-leaved	764
White-topped	753
Aster concolor	757
cordifolius	755
dumosus	760
ericoides	760
Aster divaricatus	755
gracilis	758
levis	757
lateriflorus	761
macrophyllus	755
novæ-angliae	756
novi-belgii	757
nemoralis	759
patens	756
paniculatus	760
puniceus	757
radula	759
spectabilis	758
subulatus	761
tenuifolius	761
undulatus	756
vimineus	761
Atriplex	429
Avens	482
Azalea	612

B.

Baccharis	764
Balsam Apple, Wild	713
Baneberry, Red	451
White	451
Baptisia	496
Barbarea	462
Barton, B. S.	642
Barton, W. P. C.	553
Bartonia	642
Bassia	432
Basswood	548
Batrachium	457
Bayberry	395
Beach Pea	510
Bean, Wild	513
Bear-berry	621
Beard Grass	182
Beard-tongue	678

	PAGE
Bedstraw	704
Beech	402
Beech-drops	695
Beggars-ticks	773
Bell-flower	714
Bellwort, Perfoliate	343
Sessile-leaved	343
Pine Barren	343
Benjoin	460
Bergamot	668
Betula	400
Bicuculla	461
Bidens	772
Bindweed	426, 653
Birch, White	400
Cherry	401
Sweet	401
River	401
Red	401
Bishop-weed, Mock	598
Bishop's Cap	472
Bittersweet	543
Blackberry, Sand	479
Bush	479
Tall	479
Hispid Swamp	480
Black Haw	711
Bladder-nut	543
Bladderwort	689
Blazing Star	341, 740
Blephariglottis	367
Bloodroot	461
Blue Curls	664
Blueberry	624
Blue-eyed Grass	360
Blue-hearts	683
Bluets	701
Boehmeria	415
Bog Asphodel	338
Boltonia	753
Bone-set	734
Bone-set, Climbing	739
False	739
Botrychium	122
Bouncing Bet	436
Box Elder	545
Brachyelytrum	221
Bracken	130
Bradburya	510
Brasenia	443
Brassica	462
Breweria	652
Brinton, J. B.	509
Bromus	244
Brooklime	682
Broomrape	694
Buchnera	683
Buckbean	644

	PAGE		PAGE
Carex tonsa	304	Chervil, Spreading	595
tribiloides	311	Chess, Wood	245
triceps	298	Chestnut	403
trichocarpa	294	Chickweed	436, 439
trisperma	310	Chickweed, Forked	442
typhinoidea	294	Chickory	718
umbellata	304	Chimaphila	610
utriculata	292	Chinquapin	403
varia	304	Chionanthus	636
vestita	295	Chokeberry, Red	487
vulpinoidea	306	Black	487
walteriana	295	Purple-fruited	487
wildenovii	305	Chondrophora	742
Carpetweed	434	Christmas green	143
Carpinus	399	Chrosperma	341
Carrion Flower	351	Chrysanthemum	730
Hairy	351	Chrysopsis	741
Carrot	591	Chrysosplenium	472
Carrot, Wild	591	Cichorium	718
Cassandra	619	Cicuta	596
Cassia	493	Cimicifuga	451
Castalia	445	Cinna	224
Castanea	403	Cinquefoil	482
Castilleja	687	Rough	475
Cat Gut	498	Dwarf	482
Catch-fly, Night-flowering	436	Tall	481
Stickey	437	Circaea	585
Sleepy	438	Clammy-weed	466
Cat-nip	662	Claytonia	435
Cat-tail	158	Clearweed	415
Coast	158	Cleavers	704
Ceanothus	546	Clematis	454
Cedar, White	151	Clethra	608
Red	153	Clinopodium	669
Celandine	460	Clitoria	511
Celastrus	543	Clotbur	226
Celery, Wild	173	Clovers	496
Celtis	413	Clover, Bush	506
Century	638	Club Moss	140
Cephalanthus	702	Club Rush	267
Cerastium	436, 437	Coast Strip	88, 579, 775
Ceratophyllum	446	Cockle, Corn	435
Cercis	493	Colic Root	347
Chaerophyllum	595	Collins, Zaccheus	290
Chaetochloa	212	Collinsonia	675
Chaffseed	687	Columbine, Wild	452
Chamaecyparis	151	Comandra	418
Chamaedaphne	619	Commelina	326
Chamaelirium	341	Comptonia	396
Chamaenerion	582	Conc-flower	769
Chelidonium	460	Conopholis	695
Chelone	678	Conrad, S. W.	530
Chenopodium	428	Convolvulus	653
Cherry, Ground	675	Coral-root	379
Sour	490	Corallorhiza	379
Sweet	490	Corema	530
Wild	492	Coreopsis	771
		Corn Salad	713

	PAGE.		PAGE.
Elatine	538	F.	
Elder	708	Fagus	402
Box	545	Falcata	511
Marsh	725	Feather foil	630
Elm, Red	413	Fern, Broad Beech	136
White	412	Chain	131
Eleocharis acicularis	260	Christmas	133
engelmannii	260	Cinnamon	124
glaucescens	260	Clayton's	125
interstincta	258	Climbing	129
melanocarpa	262	Ebony	132
obtusata	259	Grape	122
ocreata	259	Oak	136
olivacea	259	Ostrich	137
palustris	260	Royal	124
quadrangulata	258	Sensitive	137
robbinsii	258	Silvery	132
rostellata	264	Sweet-scented	136
tenuis	263	Sweet	396
torreyana	261	Festuca	243
tortilis	263	Fever wort	711
tricostata	262	Fig wort	678
tuberculosa	261	Filix	135
Eleocharis	258	Fimbristylis	265
Elymus	245	Fire Weed	582
Epigaea	619	White	776
Epilobium	582	Flag, Blue	359
Equisetum	138	Slender	359
Eragrostis	237	Flax	517
Erechtites	776	False	462
Erianthus	181	Wild	517
Erigeron	762	Yellow	517
Eriocaulon	323	Fleabane	762
Eriophorum	273	Marsh	765
Eryngium	594	Floating Hart	644
Erythronium	346	Flowering Data	115
Eupatorium	732	Fly-poison	341
ageratoides	738	Fog-fruit	661
album	734	Forget-me-not	659
aromaticum	738	Fox love, False	684
coelestinum	738	Fox-tail Grass	213
hyssopifolium	735	Marsh	222
leucolepis	734	Fragaria	481
maculatum	733	Fraxinus	635
perfoliatum	737	Fringe Tree	636
Eupatorium pubescens	736	Frog's Bit	173
purpureum	733	Frost weed	559
resinosum	737	Fnirena	274
rotundifolium	736		
sessilifolium	736	G.	
subvenosum	735	Galactia	512
verbenaefolium	735	Galearis	364
Euphorbia	527	Galinsoga	720
Euthamia	751	Galium	704
Everlasting	767	Garlic, Meadow	345
Evonymus	542	Gaultheria	620

	PAGE.
Hemlock	150
Water	596
Hemp, Indian	645
Water	434
Hepatica	453
Heracleum	601
Herb, Robert	515
Hercules Club	589
Heteranthera	327
Heuchera	471
Hibiscus	550
Hicoria	397
Hickory, Bitternut	399
Mocker-Nut	398
Pig-nut	398
Shag-bark	398
Shell-bark	398
Small-fruited	399
Hieracium	722
Hoarhound, Water	672
Holly	539
Mountain	541
Homalocenchrus	215
Honiwort	297
Honeysuckle	612, 712
Hop Hornbeam	400
Hop Tree, Three-leaved	517
Hornbeam	399
Hop	400
Horse Gentian	711
Horse-mint	668
Horse Nettle	675
Horsetail, Field	138
Swamp	138
Horse-weed	763
Hottonia	630
Hounds Tongue	658
Houstonia	701
Hudsonia	560
Hydrangea	472
Hydrocotyle	592
Hydrophyllum	657
Hypericum	553
Hypopitys	611
Hypoxis	355
Hyssop, Giant	666
Hedge	679
Hystrix	246

I.

Ilex	539
Ilicioides	541
Ilysanthes	680
Impatiens	545
Indian Cucumber	350
Hemp	645
Physic	478
Pipe	611

	PAGE.
Plantain	776
Indian Tobacco	715
Indigo, Wild	496
Inkberry	540
Ionactis	764
Ipecac, Wild	528
Ipomœa	653
Iris	359
Iron weed	730
Iron-wood	400
Isanthus	664
Isnardia	580
Isoetes	144
Isotria	371
Itea	472
Iva	725
Ivy, Ground	662
Poison	536

J.

Jacob's Ladder	657
Jack-in-the-Pulpit	314
Dwarf	314
Jewel-week	545
Jimson Weed	674
Joe-pye Weed	733
Joint weed	427
Judas	493
Juglans	397
Juncoides	336
Juncus	329
Juniper	153
Juniperus	153

K.

Kalm, Peter	616
Kalmia	616
Kinnikinnick	602
Knawel	437
Kneiffia	584
Knotgrass	424
Knotweed	424
Koellia	669
Kosteletzkya	549
Kuhnia	739
Lacinaria	740
Lactuca	720
Ladies' Tresses	373
Lamium	662
Lappula	658
Lathyrus	510
Laurel	616
Sheep	616
Lavender, Sea	633
Leah, Wild	344
Leather-leaf	619

156 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
Leatherwood	574	Lupine, Wild	497
Lechea	562	Lupinus	497
Lemna	318	Lycopodium	140
Leonurus	662	Lycopsis	658
Lipidium	462	Lycopus	672
Leptamnium	695	Lygodium	129
Leptandra	683	Lysimachia	631
Leptilon	763	Lythrum	574
Leptorchis	377		
Lespedeza	505		
<i>angustifolia</i>	509		
<i>capitata</i>	509		
<i>frutescens</i>	508		
<i>hirta</i>	508		
<i>nuttallii</i>	507		
<i>oblongifolia</i>	509		
<i>procumbens</i>	506		
<i>repens</i>	506		
<i>striata</i>	506		
<i>stuvci</i>	507		
<i>violacea</i>	507		
<i>virginica</i>	508		
Lettuce	720		
Leucothoe	617		
Lilæopsis	598		
Lilium	345		
Lily, Canada	346		
Red	345		
Turk's cap	346		
Water	445		
Yellow	346		
Lily-of-the-Valley False	349		
Limnanthemum	644		
Limnobiium	173		
Limodorum	372		
Limonium	633		
Limosella	681		
Linaria	677		
Linden	548		
Linum	517		
Lippia	661		
Liquidambar	474		
Liquorice, Wild	705		
Liriodendron	448		
Listera	375		
Lithospermum	658		
Liverwort	453		
Lizard's Tail	390		
Lobelia	715		
Locust	495		
Clammy	495		
Lonicera	712		
Loose strife	574, 631		
Lophiola	355		
Lophotocarpus	169		
Lotus, American	446		
Lousewort	687		
Ludvigia	580		
Ludwigiantha	579		
		M.	
		Magnolia, Swamp	446
		Maidenhair	130
		Mallow	549
		Malus	486
		Malva	549
		Maple	544
		Marigold, Bur	772
		Marsh	450
		Maritime Flora .....95, 228, 223,	430
		Martindale, I. C.	370
		Matteucia	137
		May Apple	459
		Meadow Beauty	576
		Meadow Sweet	477
		Medeola	350
		Medicago	496
		Meibomia <i>bracteosa</i>	502
		<i>canadensis</i>	504
		<i>canascens</i>	502
		<i>dillenii</i>	503
		<i>grandiflora</i>	500
		<i>lævigata</i>	503
		<i>marilandica</i>	505
		<i>michauxii</i>	501
		<i>nudiflora</i>	500
		<i>obtusa</i>	505
		<i>paniculata</i>	502
		<i>pauciflora</i>	501
		<i>rigida</i>	504
		<i>sessilifolia</i>	501
		<i>stricta</i>	501
		<i>viridiflora</i>	503
		Melampyrum	689
		Melanthium	342
		Melilotus	495
		Melilot, Yellow	495
		White	495
		Menispermum	459
		Mentha	673
		Menyanthes	644
		Mercury, Three-seeded	526
		Mermaid-weed	586
		Mertensia	658
		Mesadenia	776
		Micranpelis	713
		Micranthemum	681
		Middle District	
		80, 214, 447, 453, 497, 550, 601.	730

	PAGE.
Milkweed	647
Milkwort	520
Sea	633
Milfoil	587
Millet Grass, Pursh's	188
Mimulus	679
Mint	674
Mountain	669
Mist Flower	738
Mistletoe	416
Mitchella	703
Mitella	472
Moccasin Flower	363
Moehringia	441
Mollugo	434
Monarda	668
Monkey-flower	679
Monotropa	611
Moonseed	459
Morning Glory	652
Morus	414
Moss, Club, see Club-moss.....	
Moss, Pink	657
Mother-wort	662
Mountain Mint	669
Mouse-ear	766
Mud Plantain	327
Mudwort	681
Muhlenbergia	220
Mulberry, Red	414
Mustard, Black	462
Hedge	462
Tower	463
Myosotis	659
Myrica	395
Myriophyllum	587
Myrtle, Sand	615
Wax	396

N.

Nabalus	723
Najas	165
Nelumbo	446
Nepeta	662
Nettle, False	415
Hedge	667
Horse	675
Slender	415
Stinging	414
Wood	415
New Jersey Tea	546
Nightshade	674
Enchanter's	585
Nimble Will	221
Ninebark	477
Nonesuch	496
Nut Rush	282
Nuttall, Thomas	524. 717

	PAGE.
Nymphæa	444
Nyssa	603

O.

Oak, Bartram's	411
Basket	410
Black	405
Black Jack	407
Britton's	412
Chestnut	410
Pin	405
Post	409
Red	404
Rock Chestnut	410
Rudkin's	411
Oak, Scarlet	405
Scrub	407
Scrub Chestnut	410
Spanish	406
Swamp Post	409
Swamp White	409
White	408
Willow	408
Oat Grass	231
Obolaria	643
Oenothera	583
Oldenlandia	702
Onoclea	137
Onosmodium	659
Ophioglossum	122
Opulaster	477
Opuntia	573
Orache, Halberd-leaved	429
Sea Beach	430
Orange Grass	557
Orchis, Crane-fly	378
Crested Yellow	367
Fringeless Purple	369
Green Fringed	369
Green Wood	365
Large Purple Fringed ...	360
Pale-green	364
Ragged	369
Showy	364
Small Purple Fringed ...	369
Snowy	366
Southern Yellow	365
White Fringed	368
Yellow Fringed	367
Orontium	317
Osmunda	124
Ostrya	400
Oxalis	516
Ox-eye	768
Oxycoccus	627
Oxygraphis	457
Oxypolis	600

158 REPORT OF NEW JERSEY STATE MUSEUM.

		PAGE.			PAGE.
P.					
Painted Cup	.....	687	Panicularia	.....	240
Panax	.....	590	Pansy, Field	.....	572
Panicum	.....	189	Papaver	.....	460
aciculare	.....	199	Papaw	.....	448
aculeatum	.....	210	Parietaria	.....	416
addisoni	.....	205	Parker, C. F.	.....	324
agrostoides	.....	196	Parnassia	.....	470
amarum	.....	196	Parsnip	.....	591
anceps	.....	198	Cow	.....	601
angustifolium	.....	199	Meadow	.....	595
ashei	.....	208	Purple Meadow	.....	599
barbulatum	.....	200	Water	.....	597
boscai	.....	211	Parsonia	.....	576
cærulescens	.....	200	Partridge Berry	.....	703
capillare	.....	195	Paspalum	.....	185
clandestinum	.....	211	Pea, Beach	.....	510
clutei	.....	191	Butterfly	.....	511
columbianum	.....	206	Milk	.....	512
commonsianum	.....	205	Spurred Butterfly	.....	510
commutatum	.....	208	Pea-nut, Wild	.....	511
condensum	.....	197	Peach	.....	490
cubense	.....	196	Pearl-wort	.....	439
cryptanthum	.....	210	Pedicularis	.....	687
depauperatum	.....	198	Pellitory	.....	416
dichotomum	.....	199	Peltandra	.....	315
dichotomiflorum	.....	195	Pencil-flower	.....	499
ensifolium	.....	207	Pennyroyal	.....	668
hemitomon	.....	194	False	.....	664
huachucae	.....	203	Pennywort	.....	592, 643
lanuginosum	.....	204	Penstemon	.....	678
latifolium	.....	211	Penthorum	.....	470
leucothrix	.....	202	Pepperbush, Sweet	.....	608
lindheimeri	.....	202	Pepper-grass	.....	465
linearifolium	.....	198	Pepper-root	.....	465
lucidum	.....	200	Peranium	.....	376
mattamuskeetense	.....	201	Persimmon	.....	634
meridionale	.....	203	Perularia	.....	364
microcarpon	.....	200	Phalaris	.....	216
oligosanthes	.....	209	Phaseolus	.....	513
oricola	.....	204	Phegopteris	.....	136
philadelphicum	.....	195	Philotria	.....	173
polyanthes	.....	208	Phlox	.....	656
pseudopubescens	.....	205	Phoradendron	.....	416
scabriusculum	.....	210	Phragmites	.....	235
scoparium	.....	209	Phryma	.....	697
scribnerianum	.....	209	Physalis	.....	675
sphaerocarpon	.....	207	Phytolacca	.....	434
spretum	.....	202	Pickeral Weed	.....	326
stipitatum	.....	197	Pickering, Chas.	.....	653
tennesseense	.....	203	Pieris	.....	618
thinium	.....	207	Pig-nut	.....	398
tsugetorum	.....	206	Pigweed	.....	433
verrucosum	.....	194	Pimpernel, False	.....	680
villosissimum	.....	204	Water	.....	631
virgatum	.....	196	Pine, Ground, see Ground Plum ..		
wrightianum	.....	201	Jersey	.....	147
			Old-field	.....	150
			Pitch	.....	148
			Pond	.....	149

	PAGE.		PAGE.
pine, Short-leaved	147	Polygonum, erectum	424
White	146	hydropiper	421
Yellow	147	hydropiperoides	422
Pine Barrens, 61, 125, 148, 151, 356, 520, 530, 620, 731		lapathifolium	419
Pine Sap	611	maritimum	242
Pinweed	562	opelousanum	422
Pink, Deptford	435	pennsylvanicum	422
Moss	657	persicaria	419
Sea	636	prolificum	425
Pinus	146	punctatum	423
Pipewort	324	robustius	423
Pipsissewa	610	sagittatum	426
Pitcher Plant	467	scandens	426
Plantago	698	setaceum	424
Plantain	698	tenue	425
Indian	776	virginianum	424
Mud	327	Polygonatum	349
Rattlesnake	376	Polygonella	427
Robbin's	762	Polygonum	421
Water, see Water Plantain		Polypodium	129
Platanus	474	Polypody	129
Pluchea	763	Polystichum	133
Plum Beach	491	Pondweed	162
Chickasaw,	491	Pondtederia	326
Wild	491	Poplar Swamp	391
Poa	239	Silver	390
Podophyllum	459	Tulip	448
Pogonia, Rose	370	Populus	391
Spreading	370	Porteranthus	478
Whorled	371	Portulaca	435
Poison Ivy	538	Potamogeton	162
Oak	538	americanus	163
Sumac	536	amplifolius	162
Poke	434	confervoides	163
Polanisia	466	dimorphus	164
Polemonium	657	diversifolius	164
Polycodium	624	epihdyrus	162
Polygala	520	oakesianus	162
ambigua	522	pectinatus	164
brevifolia	521	perfoliatus	163
cruciata	521	pulcher	162
incarnata	522	pusillus	164
lutea	520	Potato, Wild	653
mariana	523	Potentilla	475
nuttallii	523	Poverty Grass	217
paucifolia	525	Prickly Pear	573
polygama	524	Primrose	583
senega	524	Proserpinaca	586
verticillata	522	Prunella	666
viridescens	523	Prunus	491
Polygonum arifolium	426	Psedera	548
atlanticum	425	Psilocarya	265
aviculare	424	Ptelea	519
careyi	422	Pteridium	130
convolvulus	420	Pteris	130
eciliatum	423	Ptilimnium	308
emersum	421	Puccinellia	243
		Pursh, Fred'k	339

160 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
Purslane	435	Ribes	473
Marsh	580	Ribwort	698
Sea	435	Rice, Wild	214
Putty-root	378	Rice, Cut-grass	216
Pyrola	609	Robina	475
Pyxidanthera	629	Rocket, Sea	463
Pyxie	629	Rosa	485
		Rose Glossy	485
		Low	485
		Swamp	485
		Sweetbrier	476
Q.		Rotala	574
Quaker-Lady	701	Rudbeckia	769
Quercus	404	Rue, Goat's	498
alba	408	Meadow	458
bicolor	409	Ruellia	696
brittoni	412	Rumex	421
coccinea	405	Ruppia	165
heterophylla	411	Rush Awl-leaved	332
ilicifolia	407	Bayonet	333
hyrata	409	Beaked	277
marilandica	407	Bristly	332
michauxii	410	Bull	269
palustris	405	Canada	335
phellos	408	Chair maker's	269
prinus	410	Club	267
prinoides	410	Common	329
rubra	404	Forked	331
rudkini	411	Grass-leaved	332
stellata	409	Greene's	331
triloba	406	Horned	276
velutina	405	Rush, Food	330
Quill Wort	144	Jointed	334
		New Jersey	334
		Nut	282
R.		Proliferous	333
Radicula	463	Scirpus-like	335
Rafinesque, C. S.	573	Scouring	138
Ragweed	725	Sharp-fruited	336
Ranunculus	454	Sharp-fronted	336
Raspberry Black cap ..	478	Slender	331
Rattle box	497	Spike	258
Rattlesnake master ..	594	Toad	330
Plantain	376	Twig	282
Root	723	Weak	336
Weed	722	Wood	336
Redbud	493	Rush-grass	222
Redroot	354	Rye, Wild	245
Red-top	225	Rynchospora	275
Tall	236	alba	277
Redfield, J. H.	30	axillaris	280
Reed	235	cymosa	281
Bur, see Bur-reed.		filifolia	279
Pine Barren	228	fusca	280
Reed grass	227	glomerata	279
Salt	233	gracilienta	277
Sea Sand	228	inundata	276
Rhamnus	546	knieskernii	278
Rhexia	576	leptocarpa	279
Rhododendron	614		
Rhus	536		

	PAGE.
Rynchospora macrostachya	276
microcephala	280
oligantha	277
pallida	278
rariflora	281
smallii	279
torreyana	281

S.

Sabatia	638
Sage	667
Sagina	439
Sagittaria	169
Salicornia	430
Salix	392
Salomonina	349
Salsola	433
Saltwort	433
Salvia	667
Sambucus	708
Samolus	631
Sand Bur	214
Myrtle	615
Reed, Sea	228
Spurry	436
Salt Marsh	442
Sandwort, Blunt-leaved	441
Pine Barren	440
Salt Marsh	442
Sea Beach	441
Thyme-leaved	437
Sanguinaria	461
Sanguisorba	484
Sanicle	593
White	738
Sanicula	593
Sapponaria	436
Sarothra	557
Sarracenia	467
Sarsaparilla, Bristly	590
Wild	589
Sassafras	459
Saururus	390
Savastana	216
Saxifraga	471
Saxifrage, Early	471
Golden	472
Swamp	471
St. Andrews Cross	552
St. John's Wort	553
Pink	557
St. Peter's Wort	552
Scheuchzeria	167
Schizaea	125
Schwaßbea	687
Scirpus	266
americanus	269
atrovirens	271

	PAGE.
Scirpus cyperinus	272
debilis	268
eriophorum	273
fluviatilis	271
georgianus	271
lineatus	272
longi	272
nanus	267
olneyi	269
paludosus	271
planifolius	268
robustus	270
setosus	269
smithii	269
subterminalis	268
torreyi	270
validus	270
Scleranthus	437
Scleria	282
Sclerolepis	731
Scorpioid Grass	659
Scouring Rush	138
Scrophularia	678
Scullcap	665
Scutellaria	664
Sea Blight	432
Lavender	633
Pink	639
Purslane	435
Rocket	463
Sedges (Carex)	290
Sedge, Autumnal	265
Bristling	253
Chestnut	266
Hair like	265
Globose	254
Gray's	255
Lancaster	253
Low	250
Marsh	251
Michaux's	252
Nuttall's	250
Pine Barren	255
Red-rooted	252
Rough	254
Shining	250
Slender	256
Small-toothed	251
Straw-colored	253
Teasel-like	254
Toothed	251
Yellow	249
Seed Box	582
Selaginella	143
Self-heal	666
Senna, Wild	494
Senecio	777

	PAGE.		PAGE.
Tecomia	695	Valerianella	713
Teucrium	663	Vallisneria	173
Thalesia	694	Venus' Looking-glass	715
Thalictrum	458	Veratrum	342
Thaspium	599	Verbena	660
Thistles	778	Verbesina	771
Thistle, Sow	719	Vernonia	730
Thorn, Dwarf	489	Veronica	682
Cockspur	489	Vervain	660
Scarlet	489	Vetch, Marsh	510
Three Square	269	Sensitive Joint	498
Tickseed, Rose-colored	771	Wild	495
Tick-trefoil	500	Viburnum	708
Tissa	436, 442	Vicia	495
Tilia	548	Viola	564
Tipularia	378	affinis	568
Toad-flax	677	blanda	570
False	418	brittoniana	567
Tobacco, Indian	717	conspersa	572
Tofieldia	337	cucullata	568
Touch-me-not	545	emarginata	570
Tradescantia	325	fimbriatula	569
Triadenum	557	hirsutula	568
Trichostema	664	lanceolata	571
Tridens	236	lineariloba	565
Trientalis	633	pallens	570
Trifolium	496	palmata	566
Triglochin	166	papilionacea	568
Trillium	350	pedata	565
Triostium	711	prunulifolia	571
Triplasis	236	pubescens	571
Tripsacum	180	rafinesquii	572
Trumpet Creeper	695	rotundifolia	570
Tsuga	150	sagittata	569
Tulip-tree	448	scabriuscula	572
Tumbleweed	433	sororia	567
Turkey-beard	339	striata	572
Twayblade, Large	377	triloba	566
Loesel's	377	Violets	565
Southern	375	Virginia Creeper	548
Twin Berry	703	Virgin's Bower	454
Typha	158	Vitis	546

U.

Ulmus	412
Unifolium	349
Uniola	239
Urtica	415
Urticastrum	415
Utricularia	688
Uvularia	343
Uvursy	621

V.

Vaccinium	624
Vagnera	348

W.

Wake robin, Ill-scented	350
Nodding	350
Walnut, Black	397
Washingtonia	595
Water Beech	399
Hemp	434
Lily	445
Nymph	165
Parsnip, Hemlock	597
Plantain	168
Dwarf	168
Shield	443
Star Grass	327

INDEX

Of Common and Technical Names of Crustacea in 1911 Report.

	PAGE.		PAGE.
A.		<i>Ægina</i> ,	504
<i>Abacura</i> ,	238	<i>longicornis</i> ,	504
<i>Abramis crysoleucas</i> , 140, 241, 327, 399			PAGE.
<i>Acantharchus pomotis</i> , 241, 327		<i>Aeginella</i> ,	504
<i>Acanthephyra</i> ,	548	<i>longicornis</i> ,	504
<i>agassizii</i> ,	548	<i>spinosa</i> ,	504
<i>armata</i> ,	548	<i>Æthusa</i> ,	590
<i>brevirostris</i> ,	549	<i>Agetus</i> ,	487
<i>eximea</i> ,	548	<i>typicus</i> ,	487
<i>gracilis</i> ,	549	<i>Alauna</i> ,	534
<i>microphthalma</i> , ... 549		<i>rostrata</i> ,	534
<i>purpurca</i> ,	548	<i>Alebion</i> ,	481
<i>Acanthocarpus</i> ,	588	<i>carchari</i> ,	481
<i>alexandri</i> , 588, 589		<i>glaber</i> ,	481
<i>Acanthonotosoma</i> ,	297	<i>glabrum</i> ,	481
<i>Acanthonotozoma</i> , 207, 510		<i>Alepadinae</i> ,	143, 498
<i>sayi</i> , 208, 510		<i>Allorchestcs</i> ,	510
<i>Acanthonotus</i> ,	207	<i>compressa</i> ,	510
<i>cristatus</i> ,	207	<i>dentata</i> ,	511
<i>sayi</i> ,	208	<i>knickerbockerii</i> , 511	
<i>Acanthostoma</i> ,	207	<i>littoralis</i> ,	510
<i>Acartia</i> ,	491	<i>sayi</i> ,	511
<i>limpida</i> ,	491	<i>Alona</i> ,	468
<i>tonsa</i> ,	491	<i>affinis</i> ,	468
<i>Acartiidae</i> ,	491	<i>Alosa sapidissima</i> , 307, 399	
<i>Achelous</i> ,	592	<i>vulgaris</i> ,	135
<i>Acherusia</i> ,	529	<i>Alpheus</i> ,	42, 558
<i>dumerilii</i> ,	529	<i>heterochælis</i> ,	559
<i>Achtheres</i> ,	475	<i>heterochelis</i> ,	559
<i>lacæ</i> ,	475	<i>minus</i> ,	558
<i>percarum</i> ,	475	<i>rapax</i> ,	558
<i>Acipenser brevirostrum</i> ,	73	<i>sivado</i> ,	547
<i>Acorn barnacles</i> ,	154	<i>Alteutha</i> ,	488
<i>Acris gryllus crepitans</i> , 241		<i>depressa</i> ,	489
<i>Actoniscus</i> ,	517	<i>Alutera schocpfii</i> ,	287
<i>ellipticus</i> ,	517	<i>Amalopenæus</i> ,	545
<i>Adamsia</i> ,	42	<i>elegans</i> ,	545
<i>Æga</i> ,	530	<i>valens</i> ,	545
<i>concharum</i> ,	289	<i>Amathia</i> ,	583
<i>emarginata</i> ,	530	<i>agassizii</i> ,	584
<i>psora</i> ,	530	<i>crassa</i> ,	584
<i>Ægathoa</i> ,	279, 526	<i>rissoana</i> , 583, 584	
<i>lobiginea</i> ,	277	<i>tanneri</i> ,	584
<i>macrophthalma</i> ,	276	<i>Ambloplites repestris</i> ,	241
<i>medialis</i> ,	526	<i>Ameiurus nebulosus</i> , 241, 477	
<i>oculata</i> , 277, 526		<i>Amouroucium pellucidum</i> ,	173
<i>Ægcon</i> ,	554	<i>Ampelisca</i> ,	505
		<i>compressa</i> ,	505

	PAGE.		PAGE.
<i>Ampelisca, eschrichtii</i> ,	505	<i>Anomalocera, pattersonii</i> ,	492
<i>macrocephala</i> ,	505	<i>Anomopoda</i> ,	55, 468
<i>spinipes</i> ,	505	<i>Anomura</i> ,	310, 572
<i>Ampeliscidæ</i> ,	505	<i>Anophonotus</i> ,	574
	PAGE.	<i>politus</i> ,	574, 575
<i>Amphicypris</i> ,	75	<i>Anops</i> ,	475
<i>Amphipoda</i> ,	166, 503	<i>radiatus</i> ,	475
<i>Amphipods</i> ,	166, 503		PAGE.
<i>Amphithæ</i> ,	201	<i>Antaria</i> ,	487
<i>læviuscula</i> ,	507	<i>crassimana</i> ,	487
<i>longimana</i> ,	203	<i>Anteacheres</i> ,	476
<i>maculata</i> ,	205	<i>duebenii</i> ,	476
<i>rubricata</i> ,	205	<i>Anthosoma</i> ,	477
<i>valida</i> ,	205	<i>crassum</i> ,	477
<i>Amphithoc</i> ,	201	<i>smithii</i> ,	477
<i>compta</i> ,	508	<i>Anthura brunnea</i> ,	292, 293
<i>longimana</i> ,	202	<i>carinata</i> ,	291, 292
<i>punctata</i> ,	203, 205	<i>gracilis</i> ,	292
<i>serrata</i> ,	208	<i>polita</i> ,	292
<i>Amphitæ</i> ,	201	<i>tenuis</i> ,	531
<i>Amphitoe</i> ,	201	<i>Anthuridæ</i> ,	263, 291, 531
<i>Ampithoe</i> ,	199, 201, 508	<i>Apeltes quadracus</i> ,	241, 323, 327, 328
<i>longimana</i> ,	202, 508	<i>Aphredoderus sayanus</i> ,	241, 327
<i>rubricata</i> ,	202, 205, 508	<i>Apos</i> ,	466
<i>Anachis avara</i> ,	376	<i>Apseudidæ</i> ,	294
<i>Anamathia</i> ,	583	<i>Apus</i> ,	466
<i>agassizii</i> ,	584	<i>Arachnida</i> ,	38, 40
<i>crassa</i> ,	584	<i>Arancops</i> ,	505
<i>tanneri</i> ,	584	<i>diadema</i> ,	505
<i>Anatifa anserifera</i> ,	151	<i>Arcturidæ</i> ,	525
<i>dentata</i> ,	152	<i>Arctus</i> ,	570
<i>lævis</i> ,	149	<i>depressus</i> ,	570
<i>Anatifarius</i> ,	146	<i>ursus</i> ,	570
<i>Anceus</i> ,	532	<i>Arenæus</i> ,	409, 412, 592
<i>forficularis</i> ,	532	<i>cribrarius</i> ,	413, 592
<i>Anchorella</i> ,	83	<i>Argulidæ</i> ,	83, 134, 497
<i>Anchovia brownii</i> ,	425	<i>Argulus</i> ,	82, 134, 497
<i>mitchilli</i> ,	424, 425	<i>alosa</i> ,	134, 135, 498
<i>Anchylomera</i> ,	513	<i>catostomi</i> ,	497
<i>blossevillii</i> ,	513, 514	<i>charon</i> ,	134
<i>Ancinidæ</i> ,	262, 270, 526	<i>funduli</i> ,	497
<i>Ancinus</i> ,	271, 526	<i>lepidostei</i> ,	497
<i>depressus</i> ,	271, 526	<i>maculosus</i> ,	497
<i>Angasia</i> ,	554	<i>stizostethii</i> ,	498
<i>pavonina</i> ,	554	<i>trilineatus</i> ,	134, 136, 497
<i>Anguilla chrisypa</i> ,	241, 323, 327, 328, 399	<i>versicolor</i> ,	135, 138, 497
<i>Anilacra</i> ,	528	<i>Aristocopsis</i> ,	544
<i>Anilocra</i> ,	528	<i>Aristeus</i> ,	543
<i>cuvierii</i> ,	528	<i>rostridentatus</i> ,	544
<i>laticauda</i> ,	528	<i>tridens</i> ,	543
<i>Anisopus</i> ,	201	<i>Armadillididæ</i> ,	222, 224, 516
<i>dubius</i> ,	201	<i>Armadillidium</i> ,	225, 516
<i>Anodonta cataractæ</i> ,	242, 327	<i>commutatum</i> ,	225
<i>Anomalocera</i> ,	492	<i>pillulare</i> ,	226
<i>patersoni</i> ,	492	<i>pilulare</i> ,	226
<i>patersonii</i> ,	492	<i>quadrifrons</i> ,	517
		<i>vulgare</i> ,	226, 516

	PAGE.
<i>Armadillo</i> ,	225
<i>pillularis</i> ,	226
<i>pilularis</i> ,	226
<i>vulgaris</i> ,	225, 226
Arpacticidæ,	489
Arpacticus,	489
<i>chauseica</i> ,	489
<i>chelifer</i> ,	489
<i>Artemia</i> ,	45
<i>Arthropoda</i> ,	38
Arthrostraca,	165, 166, 503
Asellidæ,	237, 521
Aselloidea,	220, 237, 520
<i>Aselloides</i> ,	520
<i>alta</i> ,	520
Asellus,	238, 521
<i>attenuatus</i> ,	521
<i>communis</i> ,	52, 238, 239, 521
Asels,	237, 238, 520, 521
Astacidæ,	332, 562
Astacidea,	331, 332, 562
Astacides,	311, 331, 562
Astacilla,	525
<i>cæca</i> ,	525
Astacinæ,	332, 562
<i>Astacus</i> ,	333
<i>affinis</i> ,	344, 353
<i>bartonii</i> ,	339, 340, 341, 354
<i>blandingii</i> ,	340, 357
(<i>Cambarus</i>) <i>bartonii</i> ,	342
<i>blandingii</i> ,	357
<i>carolinus</i> ,	567
<i>ciliaris</i> ,	344
<i>fossor</i> ,	349
<i>limosus</i> ,	339, 353
<i>marinus</i> ,	333
<i>pusillus</i> ,	344
<i>Astrolepas</i> ,	161
<i>Atopichthys</i> ,	124
Axiidæ,	571
Axius,	571
<i>serratus</i> ,	571
<i>stirynchus</i> ,	571

B.

<i>Baculus</i> ,	89
<i>elongatus</i> ,	89
<i>Bairdiella chrysura</i> ,	328
Bait bug,	366
<i>Balenoptera borealis</i> ,	133
Balanæ,	154, 502
Balanidæ,	142, 154, 502
Balaninæ,	154, 502
Balanus,	154, 502
<i>amphitrite</i> ,	161
<i>balanoides</i> ,	155, 502

	PAGE.
Balanus <i>crenatus</i> ,	155, 157, 502
<i>eburneus</i> ,	155, 159, 502
<i>improvisus</i> ,	161, 502
<i>porcatus</i> ,	154
<i>tintinnabulum</i> ,	161
Barnacles,	141, 498
<i>Bartonius</i> ,	340, 341
Barton's crawfish,	341, 563
<i>Bathyankeystes</i> ,	574
<i>spinosus</i> ,	574
Bathynectes,	593
<i>longispina</i> ,	593, 594
<i>suberba</i> ,	593
Beach flea,	211
<i>Bellia</i> ,	183
<i>Bellidia</i> ,	559
<i>huntii</i> ,	559
Benthescymus,	544
<i>bartletti</i> ,	544, 545
<i>crenatus</i> ,	544
<i>moratus</i> ,	545
<i>Benthæcetes</i> ,	545
<i>bartletti</i> ,	545
Benthonectes,	544
<i>filipes</i> ,	544
<i>Bernhardus</i> ,	370
<i>Betæus</i> ,	558
<i>truncatus</i> ,	558
Big hermit crab,	371, 578
Binoculus,	45, 466
<i>palustris</i> ,	466
<i>Bithynis</i> ,	558
<i>longimana</i> ,	558
Blanding's crawfish,	357, 567
Blue crab,	416, 592
Blue crabs,	415, 592
Blue crawfish,	567
Bodotriidæ,	538
<i>Bolcosoma nigrum olmstedii</i> ,	241
Bopyridæ,	243, 522
Bopyroidea,	220, 242, 522
<i>Bopyrus</i> ,	245
<i>ascendens</i> ,	244
<i>manhattensis</i> ,	245
<i>palamonticola</i> ,	245
Borcomysis,	540
<i>arctica</i> ,	540
Bosmina,	471
<i>longirostris</i> ,	471
Bosminidæ,	471
Box crab,	390, 588
Box crabs,	389, 390, 588
<i>Brachycarpus</i> ,	588
<i>savignyi</i> ,	588
Brachyura,	310, 377, 582
<i>Branchinecta</i> ,	46
Branchiopoda,	44, 466

168 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.
Branchipodidæ,	45, 467
Branchipodinæ,	45
<i>Branchipus</i> ,	47
<i>cafer</i> ,	52
<i>prevostii</i> ,	50
<i>stagnalis</i> ,	46, 47
<i>torvicornis</i> ,	52
<i>vernalis</i> ,	46, 47
Branchiura,	81, 134, 497
Brazilian prawn,	314, 542
<i>Brevoortia, tyrannus</i> ,	87, 88, 89, 285, 399.
Brook crawfish,	563
Bythocaris,	560
<i>gracilis</i> ,	561
<i>nana</i> ,	561
<i>simplicirostris</i> ,	560

C.

<i>Cabiropsidæ</i> ,	243
Cæcidotea,	522
<i>stygia</i> ,	522
Calanella,	496
<i>elongata</i> ,	496
<i>mediterranea</i> ,	496
<i>monacha</i> ,	496
Calanellidæ,	495
Calanidæ,	130
<i>Calanoida</i> ,	81
<i>Calantica</i> ,	499
<i>homii</i> ,	499
Calanus,	130, 496
<i>arcuicornis</i> ,	494
<i>elongatus</i> ,	496
<i>finmarchicus</i> ,	130, 131, 496
<i>mastigophorus</i> ,	494
<i>minor</i> ,	133, 496
<i>parvus</i> ,	495
<i>pavo</i> ,	494, 495
<i>princeps</i> ,	133, 496
Calappa,	390, 588
<i>flammea</i> ,	391, 588
<i>fornicata</i> ,	390
Calappidæ,	389, 588
<i>Calianassa stimpsoni</i> ,	570
Caligidæ,	83, 84, 94, 478
Caliginæ,	94, 111, 120, 480
<i>Caligoida</i> ,	81
Caligus,	82, 83, 120, 123, 480
<i>crassus</i> ,	477
<i>curtus</i> ,	123, 480
<i>productus</i> ,	479, 481
<i>rapax</i> ,	480
<i>tenuis</i> ,	124, 481
Callianassa,	570
<i>major</i> ,	571
<i>stimpsoni</i> ,	570
<i>subterranea</i> ,	570

	PAGE.
Callinectes,	409, 415, 592
<i>dicanthus</i> ,	417
<i>hastatus</i> ,	416
<i>sapidus</i> ,	291, 305, 322, 328, 416, 592.
Callichirus,	571
<i>major</i> ,	571
Calliope,	507
<i>leachii</i> ,	507
Calliopiidæ,	507
Calliopius,	507
<i>læviusculus</i> ,	507
Calocalanus,	494
<i>pavo</i> ,	495
<i>plumulosus</i> ,	495
Calyptomera,	55, 468
<i>Cambarellus</i> ,	339
Cambarus,	332, 339, 341, 563
<i>acutus</i> ,	344
<i>advena</i> ,	567
<i>affinis</i> ,	353
<i>bartoni</i> ,	341, 563
<i>robustus</i> ,	563
var. <i>robusta</i> , ...	563
<i>robustus</i> ...	563
<i>bartonii</i> var. <i>robusta</i> , ...	563
<i>robustus</i> ,	563
<i>robustus</i> ,	563
(<i>Bartonius</i>) <i>bartoni</i> ...	343
<i>carolinus</i> ,	567
<i>diogenes</i> ,	349
<i>monongalensis</i> ,	568
<i>uhleri</i> ,	568
<i>blandingii</i> , ...	341, 357, 567
<i>carolinus</i> ,	567
<i>digueti</i> ,	340
<i>diogenes</i> ,	341, 348
<i>diogenenes</i> ,	349
<i>dubius</i> ,	567, 568
(<i>Faxonius</i>) <i>limosus</i> , ...	353
<i>obscurus</i> ,	565
<i>propinquus</i> ,	566
<i>immunis</i> ,	566
<i>limosus</i> , ...	341, 353, 364
<i>longulus</i> ,	344
<i>monongalensis</i> ,	567
<i>montanus</i> ,	344
<i>montezumæ</i> ,	339
<i>obesus</i> ,	349
<i>obscurus</i> ,	564
(<i>Paracambarus</i>) <i>paradoxus</i> ...	340
<i>pealci</i> ,	354
(<i>Paracambarus</i>)	
<i>propinquus</i> ,	565
var. <i>obscura</i> , ...	564
<i>obscurus</i> , ..	564
<i>pusillus</i> ,	344
<i>robustus</i> ,	563

	PAGE.		PAGE.
<i>Cambarus rusticus</i> ,	565	<i>Candonaeuplectella</i> ,	70
<i>uhleri</i> ,	568	<i>Candoninae</i> ,	69, 472
<i>Campeloma decisum</i> ,	327	<i>Caprella</i> ,	168, 504
<i>Campylaspis</i> ,	536	<i>acutifrons</i> ,	169, 504
<i>horrida</i> ,	537	<i>geometrica</i> ,	169
<i>vitrea</i> ,	536	<i>scolopendroides</i> ,	168
<i>Cancer</i> ,	425	<i>unica</i> ,	504
<i>arcuatus</i> ,	380	<i>Caprellidae</i> ,	167, 504
<i>astacus</i> ,	333	<i>Caprellidea</i> ,	167, 503
(<i>Astacus</i>) <i>stellatus</i> ,	360, 361	<i>Capricola</i> ,	168
<i>barbatus</i> ,	582	<i>Caradina</i> ,	329
<i>bernhardus</i> ,	370	<i>truncifrons</i> ,	329
<i>borealis</i> ,	426	<i>Carassius auratus</i> ,	136, 137
<i>borcas</i> ,	556	<i>Carcharias littoralis</i> ,	116, 125
<i>Cancer calappa</i> ,	390	<i>Carcharodon carcharias</i> ,	116
<i>crangon</i> ,	319	<i>Carcinides</i> ,	409, 410, 592
<i>depurator</i> ,	592	<i>mænas</i> ,	410, 592
<i>dicantha</i> ,	415	<i>Carcinus</i> ,	410
<i>emerita</i> ,	366	<i>mænas</i> ,	410
<i>epheliticus</i> ,	590	<i>manas</i> ,	410
<i>flammea</i> ,	391	<i>Caretta caretta</i> ,	162, 299, 301
<i>gammarus</i> ,	333	<i>Caridea</i> ,	310, 547
<i>littoreus</i> ,	210	<i>Caridides</i> ,	311, 541
<i>palmeta</i> ,	186	<i>Carinon</i> ,	501
<i>rubricata</i> ,	201, 205	<i>Carinogammarus</i> ,	186, 188, 507
<i>granulatus</i> ,	411	<i>mucronatus</i> ,	180, 189, 507
<i>irroratus</i> ,	426, 427, 429	<i>Carrillus</i> ,	489
<i>limosa</i> ,	406, 407	<i>brevicornis</i> ,	489
<i>linearis</i> ,	168	<i>chelifer</i> ,	489
<i>locusta</i> ,	191	<i>oblongus</i> ,	489
<i>longimana</i> ,	587	<i>Cassidina lunifrons</i> ,	269
<i>manas</i> ,	410	<i>Cassidisca</i> ,	263, 269, 520
<i>maja</i> ,	577, 578	<i>lunifrons</i> ,	269, 526
<i>minutus</i> ,	442, 443	<i>ovalis</i> ,	270
<i>ocellatus</i> ,	420, 421	<i>Catapagurus</i> ,	580
<i>pagurus</i> ,	425	<i>gracilis</i> ,	581
<i>panope</i> ,	401, 404	<i>snaireri</i> ,	580
<i>parthenope</i> ,	587	<i>socialis</i> ,	581
<i>pedatus</i> ,	306	<i>Catometopa</i> ,	591
<i>pelagicus</i> ,	592	<i>Catopia</i> ,	493
<i>pisum</i> ,	434	<i>furcata</i> ,	493
<i>sayi</i> ,	430	<i>Catostomus commersonnii</i> ,	241
<i>scliferus</i> ,	316	<i>Cecropinae</i> ,	94, 478
<i>squilla</i> ,	557	<i>Cecrops</i> ,	97, 102, 104, 106, 478
<i>stagnalis</i> ,	51	<i>latreillii</i> ,	106, 478
<i>trispinosus</i> ,	597	<i>muricatus</i> ,	102, 103
<i>vocator</i> ,	454	<i>Centropages</i> ,	493
<i>Canceridae</i> ,	393, 425	<i>bradyi</i> ,	494
<i>Cancroidea</i> ,	379, 392	<i>typicus</i> ,	493
<i>Candace</i> ,	492	<i>Centropagidae</i> ,	493
<i>armata</i> ,	492	<i>Centroprius striatus</i> ,	323, 327, 389, 424
<i>ornata</i> ,	492	<i>Cepon distortus</i> ,	246, 247
<i>pectinata</i> ,	492	<i>Ceradocus</i> ,	186
<i>Candacia</i> ,	492	<i>orchestipes</i> ,	186
<i>Candaciidae</i> ,	492	<i>Cerapodina</i> ,	199
<i>Candona</i> ,	70, 73, 472	<i>Cerapus</i> ,	171, 172, 506
<i>delawarensis</i> ,	472	<i>abditus</i> ,	173, 199

170 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
<i>Cerapus minax</i> ,	200	<i>Cirolana concharum</i> ,	289, 531
<i>tabularis</i> ,	173	<i>cranchii</i> ,	288
<i>tubularis</i> ,	172, 506	<i>impressa</i> ,	531
<i>Ceratothoa</i> ,	276, 281, 528	<i>virginiana</i> ,	530
<i>impressa</i> ,	282, 528	<i>Cirolanidæ</i> ,	263, 287, 531
<i>lincais</i> ,	281, 282	<i>Cirripedia</i> ,	44, 141, 498
<i>Ceriodaphnia</i> ,	63, 470	<i>Cladocera</i> ,	44, 55, 61, 467
<i>cristata</i> ,	470	<i>Cladocopa</i> ,	69
<i>mcgops</i> ,	470	<i>Clausocalanus</i> ,	494
<i>Cestopoda</i> ,	85	<i>arcuicornis</i> ,	494
<i>amplectens</i> ,	85	<i>Cicantis attenuata</i> ,	252
<i>Cetochilus</i> ,	130	<i>filiformis</i> ,	250
<i>australis</i> ,	130	<i>Clorida</i> ,	302
<i>minor</i> ,	496	<i>latrcillii</i> ,	302
<i>Cetopirus</i> ,	163	<i>Clupea tyrannus</i> ,	87
<i>Chalæpus</i> ,	597	<i>Clytemnestra</i> ,	490
<i>Chalimus</i> ,	123	<i>rostrata</i> ,	490
<i>scomberi</i> ,	123	<i>scutcllata</i> ,	490
<i>tennis</i> ,	124	<i>Collodes</i> ,	584
<i>Cheiropristis</i> ,	514	<i>depressus</i> ,	585
<i>messanensis</i> ,	514	<i>granosus</i> ,	584
<i>Chelifera</i> ,	294	<i>robustus</i> ,	584
<i>Chelonibia</i> ,	161	<i>Common crawfish</i> ,	563
<i>Chelonobia</i> ,	154, 161, 503	<i>shrimp</i> ,	320, 324
<i>testudinaria</i> ,	161, 503	<i>Conchoderma</i> ,	143
<i>Cheraphilus</i> ,	554	<i>aurita</i> ,	145, 498
<i>agassizii</i> ,	556	<i>virgata</i> ,	91, 143, 498
<i>Chilomycterus schoepfi</i> ,	91	<i>virgatum</i> ,	144
<i>Chimney crawfish</i> ,	348, 564	<i>Concordia</i> ,	554
<i>Chiridotea</i> ,	249, 260, 524	<i>gibberosus</i> ,	554
<i>cacas</i> ,	261	<i>Condylura</i> ,	534
<i>cæca</i> ,	260, 525	<i>Conilera concharum</i> ,	289
<i>tuftsii</i> ,	524	<i>Copepoda</i> ,	44, 80, 475
<i>Chirocephale</i> ,	50	<i>Copepods</i> ,	80
<i>diaphane</i> ,	50	<i>Corallanidæ</i> ,	530
<i>Chirocephalus</i> ,	50, 51	<i>Coronis</i> ,	539
<i>diaphanus</i> ,	51	<i>scolopendra</i> ,	539
<i>holmanii</i> ,	51	<i>Coronula</i> ,	163, 503
<i>Chiromysis microps</i> ,	541	<i>balænaris</i> ,	163
<i>Chirona</i> ,	155	<i>diadema</i> ,	163, 503
<i>Chlorida</i> ,	302	<i>Corophiidæ</i> ,	171, 506
<i>Chloridella</i> ,	302, 539	<i>Corophium</i> ,	171, 175, 506
<i>empusa</i> ,	303, 304, 539	<i>cylindricum</i> ,	177, 506
<i>Chloridellidæ</i> ,	302, 539	<i>Corycæidæ</i> ,	487
<i>Chondracanthidæ</i> ,	475	<i>Corycæus</i> ,	487
<i>Chondracanthus</i> ,	83, 475	<i>carinatus</i> ,	488
<i>cottunculi</i> ,	475	<i>elongatus</i> ,	487
<i>phycidis</i> ,	476	<i>gracilis</i> ,	487
<i>zei</i> ,	475	<i>Coryphæna</i> ,	283
<i>Chydorus</i> ,	58, 64, 469	<i>Crago</i> ,	319, 553
<i>bicornutus</i> ,	59, 60, 469	<i>septemspinosus</i> , ..	305, 320, 425, 553
<i>sphæricus</i> ,	54, 469	<i>Crangon</i> ,	319
<i>Cilicæa</i> ,	253, 525	<i>crangon</i> ,	321
<i>caudata</i> ,	264, 526	<i>fasciatus</i> ,	554
<i>latrcillii</i> ,	263	<i>norwegicus</i> ,	554
<i>Cirolana</i> ,	288, 531	<i>(Sclerocrangon) agassizi</i> , ..	557
<i>borealis</i> ,	531	<i>septemcarinata</i> , ..	556

	PAGE.		PAGE.
<i>Crangon septemspinosus</i> ,	320	<i>Cyclops serrulatus</i> ,	64, 128, 486
(<i>Steiracrangon</i>) <i>allmanni</i> ,	319	var. <i>elegans</i> ,	128
<i>vulgaris</i> ,	319, 320	<i>setosus</i> ,	64
Crangonidæ,	319, 553	<i>signatus</i> ,	484
Crangonoida,	318, 553	var. <i>annulicornis</i> ,	485
Crawfishes,	332, 562, 563	<i>coronatus</i> ,	485
<i>Crossurus</i> ,	298	<i>strenuus</i> ,	484
<i>vittatus</i> ,	298	<i>thomasi</i> ,	484
Crustacea,	38	<i>varicans</i> ,	486
<i>Cryptobranchus alleganiensis</i> ,	340	<i>viridis</i> ,	483
<i>Cryptoniscidæ</i> ,	243	<i>brevispinosus</i> ,	483
<i>Cryptopodia granulata</i> ,	588	<i>insectus</i> ,	484
Ctenopoda,	55, 65, 471	<i>virido-signatus</i> ,	485
<i>Cuma rubicunda</i> ,	536	<i>Cymadusa</i> ,	201
Cumacea,	155, 534	<i>filosa</i> ,	201
Cyamidæ,	503	<i>Cymopolia</i> ,	589
Cyamus,	503	<i>caronii</i> ,	589
<i>abbreviatus</i> ,	504	<i>gracilis</i> ,	589
<i>ceti</i> ,	503	<i>Cymothoidæ</i> ,	263, 275, 526
<i>Cyanomma</i> ,	488	<i>Cymothoidea</i> ,	220, 262, 525
Cyathura,	291, 532	<i>Cymothoa</i> ,	527
<i>carinata</i> ,	292, 532	<i>Cymothoa</i> , (<i>Æga</i>) <i>oculata</i> ,	277
<i>Cyclas</i> ,	44	<i>emarginata</i> ,	255
<i>Cyclaspis</i> ,	538	<i>excisa</i> ,	527
<i>longicaudata</i> ,	538	<i>impressa</i> ,	282
<i>Cyclisticus</i> ,	519	<i>lignorum</i> ,	274
<i>convexus</i> ,	519	<i>oculata</i> ,	277
<i>Cyclocypridinæ</i> ,	69, 76, 474	<i>œstrum</i> ,	527
<i>Cyclocypris</i> ,	68, 76, 77, 474	<i>olivacea</i> ,	280
<i>lævis</i> ,	77, 474	<i>ovalis</i> ,	279
<i>Cyclopidæ</i> ,	84, 127, 482	<i>pallida</i> ,	286
<i>Cyclopoida</i> ,	81	<i>prægustator</i> ,	284
<i>Cyclops</i> ,	64, 67, 127, 148, 482, 483	<i>triloba</i> ,	280
<i>affinis</i> ,	127	<i>Cynoscion regalis</i> ,	281, 389, 424
<i>albidus</i> ,	485	<i>Cypria</i> ,	68, 76, 78, 474
<i>albus</i> ,	485	<i>dentifera</i> ,	79, 474
<i>americanus</i> ,	484	<i>exculpta</i> ,	474
<i>ater</i> ,	127, 485	<i>pustulosa</i> ,	78
<i>bicolor</i> ,	486	<i>Cyprididæ</i> ,	69, 472
<i>bicuspidatus</i> ,	484	<i>Cypridinæ</i> ,	69, 71, 472
<i>brevispinosus</i> ,	483	<i>Cyprinodon variegatus</i> ,	323, 327, 328
<i>depressus</i> ,	488, 489	<i>Cypridopsis</i> ,	68, 71, 72, 472
<i>diaphanus</i> ,	127	<i>vidua</i> ,	72, 472
<i>fimbriatus</i> ,	486, 487	<i>Cyprinotus</i> ,	75
<i>poppei</i> ,	487	<i>burlingtonensis</i> ,	473
<i>fluviatilis</i> ,	486	<i>cingoalensis</i> ,	75
<i>fuscus</i> ,	484	<i>Cypris</i> ,	68, 71, 74, 473
<i>ingens</i> ,	483	<i>agilis</i> ,	473
<i>insectus</i> ,	484	<i>burlingtonensis</i> ,	473
<i>insignis</i> ,	483	(<i>Cypria</i>) <i>exculpta</i> ,	474
<i>leuckarti</i> ,	483	<i>discolor</i> ,	473
<i>modestus</i> ,	127, 485	<i>fuscata</i> ,	473
<i>parvus</i> ,	484	<i>globosa</i> ,	77
<i>phaleratus</i> ,	486	<i>hispidia</i> ,	72, 73
<i>poppei</i> ,	487	<i>incongruens</i> ,	75, 473
<i>prasinus</i> ,	486	<i>lævis</i> ,	77
<i>pulchellus</i> ,	484	<i>pubera</i> ,	75

	PAGE.
<i>Emerita</i> ,	365, 572
<i>talpoida</i> ,	185, 366, 572
<i>Emphyria</i> ,	286
<i>ctenophora</i> ,	286
<i>Enneacanthus gloriosus</i> ,	241, 327
<i>Entomoda</i> ,	475
<i>Entomostraca</i> ,	43
<i>Entoniscidæ</i> ,	243
<i>Epelys montosus</i> ,	523
<i>trilobus</i> ,	254
<i>Ephyra</i> ,	548
<i>Ephyrina</i> ,	549
<i>benedicti</i> ,	549
<i>Epichthys</i> ,	528
<i>giganteus</i> ,	528
<i>Epischura</i> ,	494
<i>lacustris</i> ,	494
<i>Ergasilidæ</i> ,	84, 124, 481
<i>Ergasilus</i> ,	125, 481
<i>chautauquensis</i> ,	481
<i>labraces</i> ,	126
<i>labracus</i> ,	126, 481
<i>labricis</i> ,	126
<i>sieboldii</i> ,	125
<i>Erichsonella</i> ,	249, 523
<i>attenuata</i> ,	250, 252, 523
<i>filiformis</i> ,	250, 523
<i>Erichsonia</i> ,	249
<i>attenuata</i> ,	252
<i>filiformis</i> ,	250
<i>Erichthonius</i> ,	199
<i>macrodactylus</i> ,	199
<i>minax</i> ,	200
<i>Erichthonius</i> ,	199, 508
<i>difformis</i> ,	199
<i>minax</i> ,	200, 508
<i>Erimyzon sucetta oblongus</i> ,	241
<i>Eryonidæ</i> ,	569
<i>Estherinæ</i> ,	467
<i>Esox reticulatus</i> ,	138, 140, 241, 327
<i>Ethusa</i> ,	590
<i>mascarone</i> ,	590
<i>microphthalma</i> ,	590
<i>Ethusina</i> ,	590
<i>abyssicola</i> ,	590
<i>Etropus microstomus</i> ,	425
<i>Exonantes exiliens</i> ,	283
<i>rondeletii</i> ,	283
<i>Eubbranchipus</i> ,	46, 50, 51, 53, 467
<i>vernalis</i> ,	46, 47, 50, 52, 467
<i>Eucalanus</i> ,	496
<i>attenuatus</i> ,	496
<i>monachus</i> ,	496
<i>Eucirripedia</i> ,	142, 498
<i>Eucope parasitica</i> ,	91, 125
<i>Eucopopoda</i> ,	81, 475
<i>Eucopiidæ</i> ,	306
<i>Eucyclops</i> ,	127, 485

	PAGE.
<i>Eudora</i> ,	537
<i>truncatula</i> ,	537, 538
<i>Eudorella</i> ,	537
<i>deformis</i> ,	537
<i>hispida</i> ,	538
<i>pusilla</i> ,	538
<i>truncatula</i> ,	538
<i>Eudorellopsis</i> ,	537
<i>deformis</i> ,	537
<i>Eulamia milberti</i> ,	119, 120
<i>obscura</i> ,	116
<i>Eulimnadia</i> ,	467
<i>Eumiersia</i> ,	551
<i>ensifera</i> ,	551
<i>Eumunida</i> ,	576
<i>picta</i> ,	576
<i>Eupagurus</i> ,	370
<i>annulipes</i> ,	579
<i>bernhardus</i> ,	580
<i>kroyeri</i> ,	579
<i>longicarpus</i> ,	374
<i>politus</i> ,	579
<i>pollicaris</i> ,	371
<i>pubescens</i> ,	377
<i>Eupanopeus</i> ,	894, 403, 591
<i>depressus</i> ,	395
<i>herbstii</i> ,	404, 591
<i>Euphausiacea</i> ,	540
<i>Euphausiidæ</i> ,	306, 540
<i>Euphiloscia</i> ,	516
<i>elrodii</i> ,	516
<i>Eupomotis gibbosus</i> ,	241, 327
<i>Euprognatha</i> ,	585
<i>rastellifera</i> ,	585
<i>Eurycercinæ</i> ,	57, 468
<i>Eurycercus</i> ,	57, 58, 64, 468
<i>lamellatus</i> ,	57, 468
<i>Eurypanopeus</i> ,	394, 591
<i>depressus</i> ,	394, 591
<i>Euryphorinæ</i> ,	481
<i>Eurytium</i> ,	394, 406, 592
<i>limosum</i> ,	407, 592
<i>Euthemisto</i> ,	513
<i>bispinosa</i> ,	512
<i>compressa</i> ,	512

F.

Fairy shrimp,	47
shrimps,	44
<i>Faxonia</i> ,	543
<i>Faxionius</i> ,	339, 341
Fiddler crab,	446, 450, 598
crabs,	445, 598
<i>Foroculum</i> ,	87
Fresh water shrimp,	193, 507
<i>Fundulus diaphanus</i> , ..	240, 241, 326, 327
399.	

	PAGE.		PAGE.
<i>heteroclitus macrolepi-</i>		Glyphocrangon <i>insculptus</i> ,	557
<i>dotus</i> , 93, 240, 241, 323,		<i>longirostris</i> ,	557
326, 327, 328, 399, 425.		<i>sculptus</i> ,	557
<i>lucia</i> , 323, 327, 328		<i>spinicauda</i> ,	556
<i>majalis</i> , 424, 425		Glyphocrangonidæ,	556
G.		<i>Glyptelasma</i> ,	501
Galacantha,	575	Gnathia,	532
<i>bairdii</i> ,	574	<i>cerina</i> ,	532
<i>rostrata</i> ,	575	<i>termitoides</i> ,	532
<i>Galathea rugosa</i> ,	573	Gnathiidæ,	532
Galatheidæ,	573	<i>Gnathophansia</i> ,	539
Galatheidea,	573	<i>gigas</i> ,	539
<i>Galathodes</i> ,	574	<i>zoëa</i> ,	539
<i>erinaceus</i> ,	574	Gnathophausia,	539
<i>Gasterosteus aculeatus</i> , 136, 328		<i>gigas</i> ,	539
<i>Gammarus</i> ,	190	<i>zoëa</i> ,	539
<i>Gambusia gracilis</i> , 241, 327		Goldfish louse, 136, 497	
Gammarellus,	190	<i>Goniopelte</i> ,	490
Gammaridæ, 171, 185, 507		<i>gracilis</i> ,	490
Gammaridea, 167, 170, 505		<i>Goniopsyllus</i> ,	490
Gammarus, 186, 190, 507		<i>rostratus</i> ,	490
<i>emissitius</i> ,	199	Goose barnacles, 142, 498	
Gammarus, fasciatus, 52, 191, 193, 240,		Grapsidæ, 432, 438, 596	
241, 242, 507.		Grapsoid crabs, 432, 594	
<i>locusta</i> , 191, 507		Grapsoidea, 379, 432	
<i>longicornis</i> ,	175	<i>Grapsus bidens</i> ,	439
<i>minimus</i> , 194, 511		<i>cinereus</i> , 443, 597	
<i>minus</i> , 194, 196		<i>limosus</i> ,	407
<i>mucronatus</i> ,	189	<i>minutus</i> ,	443
<i>Gebia</i> ,	361	(<i>Pachysoma</i>) <i>hamatocheir</i> , 439	
<i>affinis</i> ,	361	<i>transversus</i> ,	596
<i>Gebios</i> ,	361	Gray shrimp,	320
<i>Gebius</i> ,	361	Green crab,	410
<i>Gelasimus</i> ,	445	crabs,	410
<i>minax</i> ,	450	Gribble, 274, 526	
<i>palustris</i> ,	454	Gribbles, 272, 526	
<i>pugilator</i> , 247, 446, 454		Grubia,	508
<i>pugnax</i> ,	454	<i>compta</i> ,	508
<i>vocans</i> , 447, 454		<i>taurica</i> ,	508
<i>vocator</i> ,	454	Gulf-weed crab, 443, 597	
Gennadas,	545	crabs, 442, 597	
<i>elegans</i> ,	545	<i>Gymnomera</i> ,	55
<i>parvus</i> ,	545	<i>Gymnoplea</i> , 81, 82, 475	
<i>valens</i> ,	545	H.	
Geryon,	597	Hairy hermit crab, 376, 579	
<i>tridens</i> ,	597	Haliporus,	542
<i>quinquedens</i> ,	597	<i>curvirostris</i> ,	542
Ghost crab,	598	<i>debilis</i> ,	543
crabs, 445, 597, 598		<i>microps</i> ,	543
<i>Glaucea</i> ,	492	<i>modestus</i> ,	543
<i>Glaucanome</i> ,	178	<i>Harpacticoida</i> ,	81
<i>leucopsis</i> ,	178	<i>Harpacticus</i> ,	489
Glyphocrangon,	556	<i>chelifer</i> ,	489
<i>agassizii</i> ,	556	Harpina,	506
<i>cæcescens</i> ,	556	<i>plumosa</i> ,	506

	PAGE.		PAGE.
<i>Harponyx</i> ,	529	<i>Holoscalpellum</i> ,	499
<i>pranizoides</i> ,	529	<i>Homarus</i> ,	332, 333, 562
Harris's crab,	379, 591	<i>americanus</i> ,	334, 562
<i>Haustorius</i> ,	182, 506	<i>bartonii</i> ,	342
<i>arenarius</i> ,	184, 506	<i>Homocyclops</i> ,	127, 485
<i>Hedessa</i> ,	466	<i>Homola</i> ,	582
<i>sieboldii</i> ,	466	<i>barbata</i> ,	582
<i>Hemipagurus</i> ,	580	<i>cuvieri</i> ,	582
<i>gracilis</i> ,	581	<i>spinifrons</i> ,	582
<i>socialis</i> ,	580, 581	<i>Homolax</i> ,	582
<i>Hemipenæus</i> ,	543	<i>megalops</i> ,	582
<i>spinidorsalis</i> ,	543	<i>Homolidæ</i> ,	582
<i>Henopomus</i> ,	520	<i>Hyale</i> ,	510
<i>muticus</i> ,	520	<i>littoralis</i> ,	510
HEPATULUS (new name),	590	<i>pontica</i> ,	510
<i>epheliticus</i> ,	590	<i>Hyalella</i> ,	209, 511
<i>Hepatus</i> ,	590	<i>dentata</i> ,	511
<i>fasciatus</i> ,	590	<i>knickerbockeri</i> ,	209
<i>Hepomadus</i> ,	544	<i>sayi</i> ,	209
<i>glacialis</i> ,	544	<i>Hyalodaphnia kahlbergiensis</i> ,	469
<i>tener</i> ,	544	<i>Hyas</i> ,	380, 583
<i>Heptalasmis</i> ,	502	<i>coarctata</i> ,	382
Herbst's crab,	404, 591	<i>coarctatus</i> ,	381, 583
Hermit crabs,	368, 369, 370, 578	<i>Hymenodora</i> ,	550
Herring louse,	135, 498	<i>glacialis</i> ,	550
<i>Hessella</i> ,	89	<i>gracilis</i> ,	550
<i>cylindrica</i> ,	89	<i>Hymenopenæus</i> ,	543
<i>Heterobranchipus</i> ,	52	<i>debilis</i> ,	543
<i>Heterocrypta</i> ,	588	<i>microps</i> ,	543
<i>granulata</i> ,	588	<i>modestus</i> ,	543
<i>Heterocypris</i> ,	75	<i>Hyperia latreilli</i> ,	514
<i>Heteromysis</i> ,	541	<i>oblivia</i> ,	511
<i>formosa</i> ,	541	<i>Hyperiidæ</i> ,	511
<i>Hexapanopeus</i> ,	394, 591	<i>Hyperiidea</i> ,	511
<i>angustifrons</i> ,	591	<i>Hyperoche</i> ,	513
<i>Hieraconyx</i> ,	513	<i>abyssorum</i> ,	513
<i>raccourci</i> ,	513	<i>kroeyeri</i> ,	513
<i>Hippa</i> ,	366		
<i>emerita</i> ,	367		
<i>talpoida</i> ,	366		
<i>talpoidea</i> ,	366		
<i>Hippidæ</i> ,	365, 572		
<i>Hippidea</i> ,	364, 365, 572		
<i>Hippolysmata</i> ,	553		
<i>vittata</i> ,	553		
<i>wurdemanni</i> ,	553		
<i>Hippolyte</i> ,	559		
<i>acuminata</i> ,	329, 562		
<i>ensiferus</i> ,	561		
<i>gordoni</i> ,	561, 562		
<i>lilljeborgi</i> ,	560		
<i>lilljeborgii</i> ,	560		
<i>pusiola</i> ,	560		
<i>securifrons</i> ,	560		
<i>varians</i> ,	559		
<i>wurdemanni</i> ,	553		
<i>Hippolytidæ</i> ,	329, 559		
<i>Holometopus</i> ,	439		

I.

<i>Iara</i> ,	521
<i>Iaeridina</i> ,	521
<i>Iæridina</i> ,	521
<i>Ianira</i> ,	520
<i>Ichthyophilus</i> ,	286
<i>Ichthyophorba</i> ,	493
<i>homata</i> ,	493
<i>Idotea</i> ,	249, 255
<i>balthica</i> ,	252, 256, 258, 524
<i>CHCA</i> ,	260
<i>filiformis</i> ,	250
<i>irrorata</i> ,	258
<i>marina</i> ,	258
var. <i>phosphorea</i> , .	524
<i>metallica</i> ,	256, 524
<i>montosa</i> ,	523
<i>phcsphorea</i> ,	524
<i>robusta</i> ,	256

	PAGE.		PAGE.
<i>Idotea triloba</i> ,	254	<i>Lamna cornubica</i> ,	116
<i>tuftsii</i> ,	524	<i>Lampropidæ</i> ,	536
<i>Idothea</i> ,	249, 255	<i>Lanceola pelagica</i> ,	514
<i>baltica</i> ,	258	<i>Latreillia</i> ,	583
<i>marina</i> ,	258	<i>elegans</i> ,	583
<i>metallica</i> ,	256	<i>Latreillidæ</i> ,	583
<i>phosphorea</i> ,	524	<i>Latreutes</i> ,	561
<i>Idotheidæ</i> ,	248, 523	<i>ensiferus</i> ,	561
<i>Idotheoidea</i> ,	220, 248, 523	<i>Leachia</i> ,	525
<i>Ifonyx</i> ,	492	<i>Leacia</i> ,	525
<i>typicus</i> ,	492	<i>lacertosa</i> ,	525
<i>Ilyanassa obsoleta</i> ,	376	<i>Leander</i> ,	558
<i>Ino</i> ,	46, 50, 51, 467	<i>erraticus</i> ,	558
<i>holmani</i> ,	51	<i>natator</i> ,	558
<i>holmanii</i> ,	54, 467	<i>tenuicornis</i> ,	558
<i>piscina</i> ,	50, 51	<i>Leidya</i> ,	244, 246, 523
<i>Insecta</i> ,	38	<i>distorta</i> ,	247, 523
<i>Iphimedidæ</i> ,	171, 206, 510	<i>Leiostomus xanthurus</i> ,	328, 389
<i>Iphionyx</i> ,	492	<i>Lepadidæ</i> ,	142, 498
<i>Irenæus</i> ,	492	<i>Lepadinæ</i> ,	143, 146, 499
<i>splendidus</i> ,	492	<i>Lepas</i> ,	106, 146, 501
<i>Isopoda</i> ,	166, 219, 515	<i>anatifera</i> , 145, 146, 148, 152, 153,	
<i>Isopods</i> ,	219, 515	501.	
<i>Itea</i> ,	515	<i>var. dilatata</i> ,	148
<i>riparia</i> ,	515	<i>anserifera</i> ,	145, 146, 150, 501
J.		<i>aurita</i> ,	498
<i>Jæra</i> ,	521	<i>bakenaris</i> ,	163
<i>albifrons</i> ,	521	<i>balanoides</i> ,	155
<i>marina</i> ,	521	<i>balanus</i> ,	154, 155
<i>triloba</i> ,	254	<i>diadema</i> ,	163
<i>Janira</i> ,	520	<i>Lepas fascicularis</i> ,	146, 152, 153, 501
<i>alta</i> ,	520	<i>fasciculatus</i> ,	146
<i>maculosa</i> ,	520	<i>hillii</i> ,	145, 152
<i>nordmanni</i> ,	521	<i>pectinata</i> ,	146, 148, 152, 501
<i>Janiridæ</i> ,	520	<i>testudinaria</i> ,	161
<i>Jassa</i> ,	508	<i>tulipa</i> ,	155
<i>marmorata</i> ,	508	<i>verruca</i> ,	498
<i>pulchella</i> ,	508	<i>virgata</i> ,	143
<i>Jonah crab</i> ,	426, 594	<i>Lepeophtheirus</i> ,	120, 480
K.		<i>edwardsi</i> ,	121, 480
<i>Kirtlandia vagrans laciniata</i> ,	425	<i>Lepidactylis</i> ,	182
L.		<i>dytiscus</i> ,	182, 184
<i>Lady crab</i> ,	421, 594	<i>Lepidactylus</i> ,	182
<i>crabs</i> ,	420, 594	<i>ditiscus</i> ,	184
<i>Læmargus</i> ,	102	<i>dytiscus</i> ,	184
<i>muricatus</i> ,	103	<i>Lepidopus</i> ,	116
<i>Lagodon rhomboides</i> ,	281	<i>armatus</i> ,	116
<i>Lake Erie crawfish</i> ,	565	<i>Lepleurus</i> ,	190
<i>Lambrus</i> ,	587	<i>rivularis</i> ,	190, 194
<i>pourtalesii</i> ,	587	<i>Lepomis auritus</i> ,	241
<i>verrillii</i> ,	587	<i>Leptocalanus</i> ,	495
		<i>filicornis</i> ,	495
		<i>Leptocephalus</i> ,	124
		<i>Leptochelia</i> ,	295, 533
		<i>dubia</i> ,	296
		<i>minuta</i> ,	295
		<i>rapax</i> ,	533
		<i>savignyi</i> ,	296, 533

	PAGE.		PAGE.
<i>Leptochila dubia</i> ,	296	Limnadidae,	466
<i>rapax</i> ,	533	Limnetinæ,	466
Leptodora,	469	Limnetis,	45, 466
<i>hyalina</i> ,	469	<i>gouldii</i> ,	466
Leptodoridae,	469	<i>wahlbergii</i> ,	466
<i>Lernæa asellina</i> ,	476	<i>Limnorea lignorum</i> ,	274
<i>cornuta</i> ,	475	Limnoria,	273, 526
<i>cyprinacea</i> ,	476	<i>lignorum</i> ,	274, 526
<i>pectoralis</i> ,	120	<i>tenebrans</i> ,	274
<i>spratta</i> ,	87	<i>terebrans</i> ,	273, 274
<i>Lernæenicus</i> ,	87	Limnoriidæ,	262, 272, 526
Lernæidæ,	84, 86	<i>Liparis</i> ,	186
<i>Lernæocera</i> ,	476	<i>Lirceus</i> ,	238
<i>cruciata</i> ,	477	<i>fontinalis</i> ,	238
<i>Lernæoida</i> ,	81	<i>Lironeca ovalis</i> ,	279
<i>Lernæonema radiata</i> ,	87	<i>Lispognathus</i> ,	586
Lernæopodidæ,	84, 475	<i>fucillatus</i> ,	586
<i>Lerneæa</i> ,	83	<i>thomsoni</i> ,	583
<i>radiata</i> ,	87	Lithodea,	364, 577
Lerneæenicus,	86, 87, 476	Lithodes,	577
<i>radiatus</i> ,	87, 476	<i>agassizii</i> ,	578
<i>Lernentoma</i> ,	476	<i>maia</i> ,	578
<i>trigla</i> ,	476	<i>maja</i> ,	578
Lerneocera,	476	Lithodidæ,	577
<i>cruciata</i> ,	477	Lithodidea,	577
<i>radiata</i> ,	87	Livoneca,	276, 278, 527
<i>tortua</i> ,	477	<i>redmanii</i> ,	278, 279, 527
LERNEOCEROPSIS (new name), 87, 92, 476		<i>ovalis</i> ,	279, 527
SEPTEMRAMOSUS		Lobster,	334, 562
(new name), 92, 476		Lobsters,	333, 562
	PAGE.	Long-armed hermit crab,	373
<i>Lerneonema</i> ,	125, 481	Long-wristed hermit crab,	578
<i>procera</i> ,	125, 481	<i>Lophogastridæ</i> ,	306
<i>radiata</i> ,	87	<i>Lophopsetta maculata</i> ,	307, 425
<i>Lerneopenna</i> ,	89	<i>Lucania parva</i> ,	323, 327, 328
<i>bocconii</i> ,	89	<i>Lupa</i> ,	592
<i>Lestrigonus</i> ,	511	<i>dicantha</i> ,	417
<i>spinidorsalis</i> ,	511	<i>gibbesii</i> ,	593
Leucon,	537	<i>hastata</i> ,	416
<i>deformis</i> ,	537	<i>maculata</i> ,	413
<i>emarginatus</i> ,	537	<i>pelagica</i> ,	593
<i>longirostris</i> ,	537	<i>sayi</i> ,	592
Leuconidæ,	537	<i>Lupania</i> ,	592
Leucosoidea,	379, 389, 588	<i>Lynceus</i> ,	468
Libinia,	380, 583	Lynceidæ,	56, 468
<i>canaliculata</i> ,	384, 386	Lynceinæ,	57, 58, 468
<i>dubia</i> ,	384, 583	Lynceus,	468
<i>emarginata</i> , 383, 384, 386, 583		<i>affinis</i> ,	468
Ligidium,	516	<i>brachyurus</i> ,	468
<i>longicaudatum</i> ,	516	<i>lamellatus</i> ,	57
<i>Ligyda oceanica</i> ,	516	<i>longirostris</i> ,	471
Ligydidæ,	516	<i>quadrangularis</i> ,	468
<i>Limanda ferruginea</i> ,	91	<i>sphæricus</i> ,	58, 59
Limnadella,	467	<i>trigonellus</i> ,	468
<i>coriacea</i> ,	467	Lyreidus,	572
<i>kitei</i> ,	467	<i>bairdii</i> ,	572
<i>Limnadia agassizii</i> ,	467	<i>tridentatus</i> ,	572
<i>coriacea</i> ,	467	Lysiosquilla,	539

178 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
<i>Lysiosquilla armata</i> ,	539	<i>Miersia microphthalma</i> ,	549
<i>inornata</i> ,	539	<i>purpurea</i> ,	548
M.		<i>Miracia</i> ,	490
<i>Macrobrachium</i> ,	558	<i>efferata</i> ,	490
<i>americanum</i> ,	558	<i>efferenta</i> ,	490
<i>Macrocyclops</i> ,	127, 484	<i>Mæra levis</i> ,	197
<i>Macrura</i> ,	309, 310, 541	<i>Mola mola</i> , . . . 90, 91, 92, 99, 102, 103, 105, 107, 110, 145.	
<i>Macrurans</i> ,	310, 541	<i>Molidæ</i> ,	95
<i>Maia longimana</i> ,	587	<i>Monoculus apus</i> ,	466
<i>Maiidæ</i> ,	380, 583	<i>castor</i> ,	492
<i>Maiioidea</i> ,	380	<i>cornutus</i> ,	471
<i>Malacostraca</i> ,	43, 165, 503	<i>finmarchicus</i> ,	131
<i>Mancasellus</i> ,	522	<i>fuscatus</i> ,	473
<i>brachyurus</i> ,	522	<i>pulex</i> ,	61, 62
<i>Mantis shrimps</i> ,	301, 539	<i>quadricornus</i> ,	127
<i>Marsh fiddler crab</i> ,	454, 598	<i>fuscus</i> , 127, 484	
<i>Maryland crawfish</i> ,	568	<i>viridis</i> ,	483
<i>Matutidæ</i> ,	590	<i>reticulatus</i> ,	62
<i>Mecynocera</i> ,	495	<i>Monolepis</i> ,	457
<i>clausii</i> ,	495	<i>inermis</i> ,	457, 458
<i>Megalasma</i> ,	501	<i>Monops</i> ,	491
<i>rectum</i> ,	501	<i>grandis</i> ,	491
<i>striatum</i> ,	501	<i>regalis</i> ,	491
<i>subcarinatum</i> ,	501	<i>Monstrilloida</i> ,	81
<i>Melita</i> ,	186, 507	<i>Morone americana</i> ,	399
<i>nitida</i> ,	187, 507	<i>Mountain crawfish</i> ,	341
<i>Menidia beryllina</i> ,	399	<i>Mud crab</i> ,	394, 404, 591
<i>cerea</i> ,	327, 328	<i>crabs</i> ,	393, 403, 591
<i>menidia notata</i> , . . . 93, 132, 323, 326, 327, 328, 363, 424, 425.		<i>crawfish</i> ,	564
<i>Meningodora</i> ,	550	<i>lobster</i> ,	361, 571
<i>mollis</i> ,	550	<i>Mugil curema</i> ,	424
<i>Menticirrhus saxatilis</i> ,	424, 425	<i>Mullus auratus</i> ,	424
<i>Mesogonistius chætodon</i> ,	327	<i>Munida</i> ,	573
<i>Messula</i> ,	155	<i>caribæa</i> ,	573, 574
<i>Metapeneus</i> ,	313	<i>iris</i> ,	573
<i>Metapeneus</i> ,	313	<i>irrasa</i> ,	573
<i>Metaponorthus pruinus</i> ,	518	<i>valida</i> ,	574
<i>Metoecus</i> ,	513	<i>Munidopsis</i> ,	574
<i>abyssorum</i> ,	513	<i>bairdii</i> ,	574
<i>medusarum</i> ,	513	<i>crassa</i> ,	574
<i>Metoponorthus</i> ,	517	<i>curvirostra</i> ,	574, 575
<i>pruinus</i> ,	517	<i>polita</i> ,	575
<i>Microcyclops</i> ,	127	<i>rostrata</i> ,	576
<i>Microdeutopus</i> ,	509	<i>similis</i> ,	575
<i>gryllotalpa</i> ,	509	<i>Munnopsidæ</i> ,	520
<i>minax</i> ,	509	<i>Munnopsis</i> ,	520
<i>Microniscidæ</i> ,	243	<i>typica</i> ,	520
<i>Micropogon undulatus</i> ,	281, 328	<i>Mussel crab</i> ,	435, 595
<i>Micropterus</i> ,	340	<i>Mustelus</i> ,	113
<i>Miersia</i> ,	548	<i>canis</i> ,	113, 116, 388
<i>agassizii</i> ,	548	<i>Myodocopa</i> ,	69
<i>brevirostris</i> ,	549	<i>Myriapoda</i> ,	38
<i>eximea</i> ,	548	<i>Myropsis</i> ,	589
<i>gracilis</i> ,	549	<i>quinespinosa</i> ,	589
		<i>Mysidacea</i> ,	540
		<i>Mysidæ</i> ,	306, 540

	PAGE.
<i>Mysis</i> ,	306, 541
<i>americana</i> ,	307, 541
<i>americanus</i> ,	308
<i>arctica</i> ,	540
<i>spinulosus</i> ,	308

N.

<i>Næsa caudata</i> ,	264
<i>depressa</i> ,	271
<i>Nannastacidæ</i> ,	536
<i>Naobranchia</i> ,	85, 475
<i>cygniformis</i> ,	85
POMOLOBI (new name),	85, 475
<i>Natrix sipcdon</i> ,	340
<i>Naushonia</i> ,	571
<i>crangonoides</i> ,	571
<i>Nautilograpsus</i> ,	442
<i>minutus</i> ,	443
<i>Necturus maculosus</i> ,	340
<i>Nematocarcinidæ</i> ,	551
<i>Nematocarcinus</i> ,	551
<i>cursor</i> ,	551
<i>ensiferus</i> ,	551
<i>Neopanope</i> ,	349, 400, 591
<i>pourtalesii</i> ,	400
<i>texana</i> ,	402
<i>sayi</i> ,	400, 591
<i>Neopenæopsis</i> ,	313
<i>paradoxis</i> ,	313
<i>Neoscalpellum</i> ,	499
<i>Neotanais</i> ,	533
<i>americanus</i> ,	533
<i>Nephropsidæ</i> ,	568
<i>Nephropsis</i> ,	568
<i>aculeata</i> ,	569
<i>aculeatus</i> ,	568
<i>agassizii</i> ,	569
<i>rosea</i> ,	569
<i>stewarti</i> ,	568
<i>Neptunus</i> ,	592
<i>hastatus</i> ,	416
(<i>Neptunus</i> ,) <i>cribrarius</i> , ..	413
<i>sayi</i> ,	593
<i>sayi</i> ,	144, 145, 593
<i>Nerocila</i> ,	276, 286, 528
<i>acuminata</i> ,	528
<i>blainvillii</i> ,	286
<i>lanceolata</i> ,	287
<i>munda</i> ,	286, 287, 529
<i>Nesippus</i> ,	478
<i>alatus</i> ,	478
<i>curticaudis</i> ,	478
<i>orientalis</i> ,	478
<i>Nicea</i> ,	510
<i>lucasii</i> ,	510

	PAGE.
<i>Nogagus</i> ,	83, 112
<i>curticaudis</i> ,	478
<i>latreillii</i> ,	478, 479
<i>Nogaus</i> ,	111, 112
<i>latreillii</i> ,	112
<i>Nothocaris</i> ,	551
<i>rostricrescentis</i> ,	551
<i>Notodelphyoida</i> ,	81
<i>Notonectes</i> ,	242
<i>Notostomus</i> ,	550
<i>gibbosus</i> ,	550
<i>robustus</i> ,	550
<i>vescus</i> ,	550
<i>Notropis chalybeus</i> ,	327
<i>bifrenatus</i> ,	241
<i>cornutus</i> ,	241
<i>Nyctiphanes</i> ,	540
<i>australis</i> ,	540
<i>norwegica</i> ,	540

O.

<i>Octolasmis</i> ,	502
<i>americanum</i> ,	502
<i>geryonophila</i> ,	502
<i>warwickii</i> ,	502
<i>Ocypete</i> ,	457
<i>Ocypoda</i> ,	457
<i>albicans</i> ,	457
<i>arenaria</i> ,	458
<i>heterochelos</i> ,	445
<i>maracoani</i> ,	445
<i>pugilator</i> ,	446
<i>pusilla</i> ,	440, 447
<i>Ocypode</i> ,	445, 457, 598
<i>albicans</i> ,	457, 598
<i>arenaria</i> ,	458
<i>Ocypode</i> , <i>arenarius</i> ,	458
<i>pugilator</i> ,	446
<i>quadrata</i> ,	458
<i>reticulatus</i> ,	440
(<i>Sesarma</i>) <i>reticulatus</i> , ..	440
<i>Ocypodidæ</i> ,	432, 445, 597
<i>Ogyris</i> ,	560
<i>alphærostris</i> ,	560
<i>orientalis</i> ,	560
<i>Oithona</i> ,	482
<i>plumifera</i> ,	482
<i>Oithonella</i> ,	482
<i>helgolandica</i> ,	482
<i>Olencira</i> ,	276, 283, 528
<i>lamarkii</i> ,	283
<i>prægustator</i> ,	284, 528
<i>Oncaea</i> ,	487
<i>venusta</i> ,	487
<i>Oncaeidæ</i> ,	487
<i>Oniscidæ</i> ,	222, 227, 517

	PAGE.		PAGE.
Pandarinæ,	94, 95, 96, 98, 99, 100 108, 110, 478.	Parathemisto oblivia,	511
Pandarus,	83, 111, 112, 479	<i>oblivio</i> ,	512
<i>bicolor</i> ,	112	<i>Paromola</i> ,	582
<i>cranchii</i> ,	479	Parthenope,	587
<i>dentatus</i> ,	116	<i>fornicata</i> ,	587
<i>sinuatus</i> ,	113, 479	<i>pourtalsii</i> ,	587
<i>smithii</i> ,	479	<i>verrillii</i> ,	587
<i>Panopkys depressus</i> ,	404	Parthenopidæ,	587
<i>herbstii</i> ,	404	<i>Pasiphae</i> ,	547
<i>Panopea</i> ,	403	<i>glacialis</i> ,	550
<i>Panopeus</i> ,	403	<i>Pasiphaea</i> ,	547
<i>augustifrons</i> ,	501	<i>princeps</i> ,	547
<i>crenatus</i> ,	394	<i>Pasiphaeidæ</i> ,	547
<i>depressus</i> ,	394	<i>Pasiphaeoida</i> ,	547
<i>harrisii</i> ,	397	<i>Pelia</i> ,	585
<i>herbsti</i> ,	404	<i>mutica</i> ,	586
<i>herbstii</i> ,	403, 404	<i>pulchella</i> ,	585
<i>limosum</i> ,	407	Peltidiidæ,	488
<i>limosus</i> ,	407	Penæidæ,	312, 542
<i>sayi</i> ,	400	<i>Penæidea</i> ,	312, 542
<i>texanus</i> ,	401	<i>Penæopsis</i> ,	543
<i>weurdemanni</i> ,	398	<i>ocularis</i> ,	543
<i>Panopius sayi</i> ,	401	<i>serratus</i> ,	543
<i>Paphredo</i> ,	190	Penæus,	313, 542
<i>potamogeti</i> ,	100	<i>affinis</i> ,	313
Paracalanidæ,	494	<i>anchoralis</i> ,	313
Paracalanus,	495	<i>antennatus</i> ,	543
<i>parvus</i> ,	495	<i>brasiliensis</i> ,	314, 315, 542
<i>Paracambarus</i> ,	340	<i>braziliensis</i> ,	315
Paracandona,	70, 472	<i>caramote</i> ,	314
<i>euplectella</i> ,	70, 472	<i>constrictus</i> ,	542
<i>Paracyclops</i> ,	127, 486	<i>edwardsiana</i> ,	544
<i>Paradolepas</i> ,	502	<i>kroyeri</i> ,	314
<i>neptuni</i> ,	502	<i>longirostris</i> ,	313, 314
Paralamprops,	536	<i>membranaceus</i> ,	314
<i>orbicularis</i> ,	536	<i>monoceros</i> ,	314
<i>serrato-costata</i> ,	536	<i>monodon</i> ,	313, 314
<i>Paralichthys dentatus</i> ,	123, 307, 424, 425	<i>planicornis</i> ,	314
<i>oblongus</i> ,	123	<i>politus</i> ,	542
<i>Paramithrax</i> ,	41	<i>setiferus</i> ,	314, 316, 542
Parapagurus,	581	<i>stiliferus</i> ,	313
<i>pilosimanus</i> ,	581	<i>Penella plumosa</i> ,	90, 91
<i>Parapandalus</i> ,	552	<i>Penellus</i> ,	89
Parapasiphae,	543	<i>Pencus</i> ,	313
<i>alcocki</i> ,	547	<i>brasiliensis</i> ,	315
<i>compta</i> ,	547	<i>braziliensis</i> ,	315
<i>sulcatifrons</i> ,	547	<i>constrictus</i> ,	542
<i>Parapencus</i> ,	313	<i>Pennatula filosa</i> ,	90, 91
<i>constrictus</i> ,	543	<i>sagitta</i> ,	91
<i>Parapencopsis</i> ,	313	Pennella,	87, 476
<i>Parapencus</i> ,	313	<i>diodontis</i> ,	89
<i>Paratemesia</i> ,	543	<i>filosa</i> ,	90, 145, 476
<i>Paratanais</i> ,	295	<i>sagitta</i> ,	90, 91, 476
<i>carinata</i> ,	543	<i>Pennellidæ</i> ,	86
Parathemisto,	511	<i>Pentacheles</i> ,	569
<i>abyssorum</i> ,	511	<i>debilis</i> ,	570

182 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
<i>Pentacheles laevis</i> ,	569	<i>Pinnotheres baculatum</i> ,	435
<i>nanus</i> ,	569	<i>maculatus</i> , 434, 435, 595	
<i>roseus</i> ,	569	<i>ostreum</i> , ...433, 434, 435	
<i>sculptus</i> ,	569	436, 595.	
<i>spinosus</i> ,	569	<i>Pinnotheridæ</i> ,	432, 594
<i>Pentagon</i> crab,	588	<i>Pisa mutica</i> ,	586
crabs,	587	<i>Pisidia</i> ,	577
<i>Perca flavescens</i> ,	241	<i>viridis</i> ,	577
<i>Periclemenes</i> ,	559	<i>Pisidium</i> ,	44
<i>insignis</i> ,	559	<i>Planes</i> ,	439, 442, 597
<i>Peripatus</i> ,	38	<i>clypeatus</i> ,	442
<i>Perissopus</i> ,98, 101, 111, 116, 480		<i>minutus</i> ,	443, 597
<i>communis</i> ,117, 480		<i>Planorbis trivolvis</i> ,	242
var. <i>stimpsoni</i> , 117		<i>Plastocrangon</i> ,	556
<i>dentatus</i> ,	117	<i>Platessa ferruginea</i> ,	91
<i>Petrolisthes</i> ,	576	<i>Platyaspis orbicularis</i> ,	536
<i>armatus</i> ,	576	<i>Platycarcinus</i> ,	425
<i>violacea</i> ,	576	<i>irroratus</i> ,427, 430	
<i>Petromyzon marinus</i> ,	241	<i>Platycopa</i> ,	69
<i>Philicthys</i> ,	83	<i>Platyonychus ocellatus</i> ,	421
<i>Philonicus</i> ,	543	<i>Playtonychus ocellatus</i> ,	421
<i>mulleri</i> ,	543	<i>Pleoncxcs</i> ,	201
<i>Philorthratoriscus</i> ,97, 98, 478		<i>gammaroides</i> ,	201
<i>serratus</i> , 99, 105, 478		<i>Pleoticus</i> ,	543
<i>Philoscia</i> ,228, 232, 519		<i>Plesionika</i> ,	551
<i>vittata</i> ,233, 519		<i>Plesiopcnæus</i> ,	544
<i>Philougria</i> ,	515	<i>Plesiopencus</i> ,	544
<i>celer</i> ,	515	<i>Plcuroxus</i> ,	468
<i>Photidæ</i> ,	509	<i>bairdii</i> ,	468
<i>Phoxocephalidæ</i> ,	506	<i>denticulatus</i> ,	468
<i>Phoxus plumosus</i> ,	506	<i>Podoceridæ</i> ,171, 198, 508	
<i>Phrosinidæ</i> ,	513	<i>Podocerus</i> ,	175, 508
<i>Phyc</i> ,	547	<i>cylindricus</i> ,	177
<i>Phyllocarida</i> ,	165	<i>marmoratus</i> ,	508
<i>Phyllopoda</i> ,43, 44, 466		<i>variegatus</i> ,175, 508	
<i>Phyllopods</i> ,	44	<i>Podocopa</i> ,68, 69, 471	
<i>Phyllopus</i> ,	466	<i>Podoplea</i> ,81, 129, 491	
<i>Phypophilus</i> ,	468	<i>Pœcilasma</i> ,	501
<i>Physa heterostropha</i> ,242, 327		<i>fissa</i> ,	501
<i>Physocypria</i> , L 78		<i>hæmpferi</i> ,	501
<i>Pike</i> louse,	497	<i>Pogonias cromis</i> ,	328
<i>Pill</i> bug, ....226, 516		<i>Polyartemia</i> ,	45
bugs, ....224, 225, 516		<i>inæquilaterale</i> ,	501
<i>Pilumnidæ</i> ,393, 501		<i>Polychcles sculptus</i> ,	569
<i>Pilumnus harrisi</i> ,	397	<i>Polylepas</i> ,	163
<i>harrisii</i> ,	397	<i>Polyonyx</i> ,	577
<i>Pinnixa</i> ,	595	<i>macrocheles</i> ,	577
<i>chætopterana</i> ,	595	<i>Pomatomus</i> ,	281
<i>cristata</i> ,	596	<i>saltatrix</i> , ...281, 323, 389	
<i>cylindrica</i> ,595, 596		<i>Pomolobus</i> ,	85
<i>sayana</i> ,	596	<i>estivalis</i> ,85, 86	
<i>Pinnotercs</i> ,	434	<i>mediocris</i> ,389, 424	
<i>Pinnotheca</i> ,	434	<i>pseudoharengus</i> , 85, 93,	
<i>Pinnotheres</i> ,42, 433, 434, 595		136, 399, 425.	
<i>byssomicæ</i> ,	435	<i>Pontellina</i> ,	40, 491
<i>cylindricum</i> ,	596	<i>regalis</i> ,	491
<i>depressum</i> ,	433		

	PAGE.		PAGE.
<i>Pontellopsis</i> ,	491	<i>Pseudocalanidæ</i> ,	494
<i>regalis</i> ,	491	<i>Pseudomma</i> ,	541
<i>villosa</i> ,	491	<i>roseum</i> ,	541
<i>Pontophilus</i> ,	554	<i>Pseudophthalmus</i> ,	505
abyssi,	555	<i>pelagicus</i> ,	505
bispinosus,	554	<i>Pseudophtalmus</i> ,	505
brevirostris,	555	<i>Pseudopleuronectes americanus</i> ,	L
<i>gracilis</i> ,	555	.....	323, 425
norwegicus,	554	<i>Pseudotriacis microdon</i> ,	291
spinusus,	554	<i>Pterygocera</i> ,	182
<i>Pontoporeiidæ</i> ,171, 182,	506	<i>Ptilanthura</i> ,	531
<i>Porcellana</i> ,	577	<i>tenuis</i> ,	531, 532
<i>armata</i> ,	576	<i>Ptilacheirus</i> ,	509
<i>macrocheles</i> ,	577	<i>pinguis</i> ,	509
(<i>Polyonyx</i>)		<i>Ptilochirus pinguis</i> ,	509
<i>macrocheles</i> ,	577	<i>Pupulina</i> ,	120
<i>sigsbeiana</i> ,	577	<i>flores</i> ,	120
<i>Porcellanidæ</i>	576	<i>Pyctilus</i> ,	199
<i>Porcellanidea</i> ,	364, 576	<i>Pyromma</i> ,	488
<i>Porcellio</i> ,	228, 229, 518	<i>Pyrula canaliculata</i> ,	373
<i>convexus</i> ,	519	<i>clicicans</i> ,	373
<i>lævis</i> , ...229, 231, 518,	519		
<i>niger</i> ,	230		
<i>nigra</i> ,	230		
<i>pictus</i> ,	518		
<i>pruinusus</i> ,	517		
<i>rathkei</i> ,	518		
<i>rathkii</i> ,	519		
<i>scaber</i> ,	229, 518		
<i>spiniornis</i> ,	518		
<i>Porcellionides</i> ,	517		
<i>flavovittata</i> ,	517		
<i>Portunidæ</i> ,	409, 591		
<i>Portunus</i> ,	592		
<i>cribrarius</i> ,	412, 413		
<i>gilbesii</i> ,	593		
<i>manoides</i> ,	411		
<i>pictus</i> ,	422		
<i>sayi</i> ,	502		
<i>spiniimanus</i> ,	593		
<i>superbus</i> ,	504		
<i>Prawn</i> ,	324, 557		
<i>louse</i> ,	244, 522		
<i>Prionotus exolans strigatus</i>	424		
<i>Pristis semisagittatus</i> ,	281		
<i>Probopyrus</i> ,	244, 522		
<i>pandalicola</i> , 244, 245,	522		
<i>palæmoncticola</i> ,	245		
<i>palæmonticola</i> ,	245		
<i>Procambarus</i> ,	340		
<i>Psolidopoda</i> ,	557		
<i>Psammopsylla</i> ,	210		
<i>Psammylla</i> ,	210		
<i>littoralis</i> ,	210, 211		
<i>Pseudione</i> ,	523		
<i>furcata</i> ,	523		
		R.	
		<i>Raja crinacca</i> ,	123
		<i>Rana catesbeiana</i> ,	137
		<i>clamata</i> ,	241
		<i>palustris</i> ,	241
		<i>pipiens</i> ,	52
		<i>Raninidæ</i> ,	572
		<i>Red crawfish</i> ,	567
		<i>Red-jointed fiddler crab</i> ,	450, 458
		<i>Regina leberis</i> ,	340
		<i>Rhachocaris</i> ,	556
		<i>agassizii</i> ,	556
		<i>longirostris</i> ,	557
		<i>sculpta</i> ,	557
		<i>Rhinichthys atronasus</i> ,	241
		<i>Rhithropanopeus</i> ,	394, 397, 591
		<i>harrisii</i> ,	397, 591
		<i>Rhizocephala</i> ,	142
		<i>Rhombus ferrugineus</i> ,	91
		<i>River crawfish</i> ,	353, 564
		<i>Roccus lineatus</i> ,	126, 287, 389
		<i>Rocinela</i> ,	529
		<i>americana</i> ,	529
		<i>danmoniensis</i> ,	529
		<i>Rock barnacles</i> ,	155
		<i>Rock crab</i> ,	429, 504
		S.	
		<i>Sabinea</i> ,	556
		<i>hystrix</i> ,	556
		<i>princeps</i> ,	556
		<i>sarsii</i> ,	556

184 REPORT OF NEW JERSEY STATE MUSEUM.

	PAGE.		PAGE.
Sand bug,	366, 572	Sesarma,	439, 597
bugs,	365, 572	<i>cinerea</i> ,	440, 597
shrimp,	320, 553	<i>cinereum</i> ,	597
shrimps,	319, 553	<i>cinereus</i> ,	597
Saphirina,	488	<i>reticulata</i> ,	439
<i>gemma</i> ,	488	<i>reticulatum</i> ,	440, 597
<i>Sapphir</i> ,	490	<i>Sesarme reticulata</i> ,	440
<i>rostratus</i> ,	490	Setella,	490
<i>Sapphiridina</i> ,	488	<i>gracilis</i> ,	490
<i>Sapphirina</i> ,	488	<i>tenuicornis</i> ,	490
<i>darwinii</i> ,	488	Short-tailed crabs,	377
<i>gegenbauri</i> ,	488	Sida,	66, 471
Saphirinidæ,	488	<i>brachyura</i> ,	471
Say's crab,	400, 591	<i>crystallina</i> ,	67, 471
Scalpellum,	499	Sididæ,	65, 471
<i>aurivillii</i> ,	500	<i>Simocephalus</i> ,	470
<i>dicheloplax</i> ,	499, 500	<i>serrulatus</i> ,	470
<i>benthophila</i> ,	500	<i>vetulus</i> ,	470
<i>formosum</i> ,	500	<i>Simos</i> (impr. err. <i>Simosa</i>),	63
<i>imperfectum</i> ,	500	Skeleton shrimps,	167, 168, 504
<i>latidorsum</i> ,	500	Simosa,	469
<i>reginum</i> ,	499	<i>abrupta</i> ,	470
<i>sinuatum</i> ,	500	<i>serrulata</i> ,	470
<i>velutinum</i> ,	499	<i>vetula</i> ,	470
<i>Scapaoleberis mucronata</i> ,	64	<i>Smilium</i> ,	499
var. <i>armata</i> ,	65	<i>peronii</i> ,	499
Scapholeberis,	60, 61, 63, 67, 410	<i>Somatogyrus altilis</i> ,	242
<i>armata</i> , 63, 64, 65,	470	Southern prawn,	316, 542
<i>mucronata</i> , 63, 64,	470	Sow bugs,	518
<i>Schilbcodes gyrimus</i> ,	241, 327	Specilligus,	478
Schizopoda,	165, 166, 305, 540	<i>alatus</i> ,	478
Schizopods,	305, 540	<i>curticaudis</i> ,	478
<i>Sclerocrangon</i> ,	556	<i>Sperchius</i> ,	190
<i>agassizii</i> ,	557	<i>lucidus</i> ,	190
<i>Scoliodon terra-novæ</i> ,	116	<i>Sphærium</i> ,	68
<i>Scomber scombrus</i> ,	424	(<i>Musculium</i>) <i>partumcniun</i> ,	327
Scopiphora,	494	Sphæroma,	263, 267, 526
<i>vagans</i> ,	494	<i>quadridentata</i> ,	267
<i>Scribella</i> ,	482	<i>quadridentatum</i> ,	267, 526
<i>scriba</i> ,	482	Sphæromidæ,	262, 263, 525
Scuds,	190, 507	Spider crab,	384, 386
Scyphacella,	223, 516	crabs,	379, 380, 383, 583
<i>arenicola</i> ,	223, 516	Spirocypris,	71, 74, 472
Scyphacidæ,	222, 516	<i>passaica</i> ,	74, 472
Scyllaridæ,	570	Spring-time shrimp,	47
Scyllaridea,	570	Squill,	303, 539
<i>Semotilus bullaris</i> ,	241	<i>Squilla</i> ,	302
Sergestes,	545	<i>empusa</i> ,	303
<i>arcticus</i> ,	546	<i>lobata</i> ,	168
<i>atlanticus</i> ,	545	<i>maculata</i> ,	302
<i>mollis</i> ,	546	Squills,	302, 539
Sergestidæ,	545	Stalk-eyed crustacea,	541
Sergia,	546	<i>Steiracrangon</i> ,	310
<i>arcticus</i> ,	546	<i>Stenosoma filiformis</i> ,	249, 250
Sergia, <i>meyeri</i> ,	546	<i>irrorata</i> ,	258
<i>remipes</i> ,	546	<i>Stenotomus chrysops</i> ,	281
<i>robustus</i> ,	546	<i>Sterna hirundo</i> ,	363

	PAGE.
<i>Sterope</i> ,	489
<i>ovalis</i> ,	489
<i>Stochasmus</i> ,	551
<i>exilis</i> ,	551
Stomatopoda,	165, 166, 301, 539
Streptocephalus,	46, 51, 52, 467
<i>sealii</i> ,	53, 55, 467
<i>Sulcator</i> ,	183
<i>Sunamphithoe</i> ,	201
<i>Sunamphithoe</i> ,	201
<i>hamulus</i> ,	201
Swimming crabs,	409, 592
Sympagurus,	582
<i>pictus</i> ,	582
<i>Synamphithoe</i> ,	201
<i>Syngnathus fuscus</i> ,	132, 323, 424, 425
Syscenus,	529
<i>infelix</i> ,	529
<i>Systellaspis</i> ,	548
<i>lanceocaudata</i> ,	548

T.

Tachidiidæ,	489
Tachidius,	489
<i>brevicornis</i> ,	489
Talitrus,	210, 214, 510
<i>gracilis</i> ,	214
<i>grillus</i> ,	211
<i>gryllus</i> ,	211
<i>longicornis</i> ,	215, 510
<i>megalophthalmus</i> ,	215, 218, 510
<i>quadrifidis</i> ,	218
<i>Talorchestia</i> ,	241
<i>longicornis</i> ,	216
<i>longirostris</i> ,	216
<i>macrophthalma</i> ,	218
<i>megalophthalma</i> ,	218
<i>Talytrus</i> ,	214
Tanaidæ,	294, 533
Tanaioidea,	220, 294, 533
Tanais,	295, 298, 534
<i>cavolinii</i> ,	298, 534
<i>elongatus</i> ,	295
<i>robustrus</i> ,	299, 534
<i>savignyi</i> ,	296
<i>vittatus</i> ,	296, 534
<i>Tauria</i> ,	513
<i>Tautoga onitis</i> ,	281, 323, 424
<i>Tautogolabrus adspersus</i> ,	327
<i>Temnaspis</i> ,	501
<i>Tetromatus</i> ,	505
<i>typicus</i> ,	505
Thalassinidea,	331, 360, 570
<i>Thamnophis sirtalis</i> ,	241
<i>Thaumalea</i> ,	514
<i>depilis</i> ,	514

<i>Thaumatops</i> ,	513
<i>Thaumops</i> ,	513
<i>pellucida</i> ,	513
<i>Themisto</i> ,	512
<i>bispinosa</i> ,	512
<i>compressa</i> ,	512
<i>gaduichaudii</i> ,	512
<i>Thranites</i> ,	593
<i>velox</i> ,	393
<i>Thynnus citridorus</i> ,	221
<i>Thysanopoda</i> ,	540
<i>tricuspidata</i> ,	540
Toad crab,	381, 583
<i>crabs</i> ,	583
Tozeuma,	554
<i>carolinensis</i> ,	554
<i>lanceolatum</i> ,	554
<i>Trachinotus carolinus</i> ,	424, 425
<i>Trachurops crumenophthalmus</i> ,	281
<i>Trachypenæus constrictus</i> ,	542
<i>Trachypenæus</i> ,	313
<i>Trichelaspis</i> ,	502
<i>forresti</i> ,	502
Trichoniscus,	515
<i>pusillus</i> ,	515
Tridentella,	530
<i>virginiana</i> ,	530
<i>Triops</i> ,	466
<i>Triops</i> ,	466
<i>Tristopus coccineum</i> ,	92
Tube shrimp,	172, 506
<i>Tubicola</i> ,	595
<i>longipes</i> ,	595
Turtle barnacle,	503
<i>barnacles</i> ,	161, 503
<i>Tylosurus marinus</i> ,	123, 323, 399

U.

<i>Uca</i> ,	42, 445, 598
<i>minax</i> ,	446, 450, 451, 598
<i>pugillator</i> ,	248, 322, 446, 447, 598
<i>pugnax</i> ,	446, 454, 598
<i>Umbra</i> ,	241
<i>pygmæa</i> ,	240, 241, 327
<i>Unciola</i> ,	171, 178, 506
<i>irrorata</i> ,	178, 179, 506
<i>Unio complanata</i> ,	242
<i>Upogebia</i> ,	360, 571
<i>affinis</i> ,	361, 571
Upogebidæ,	360, 570
<i>Urocaris</i> ,	559
<i>longicaudata</i> ,	559

V.

<i>Verruca</i> ,	498
<i>darwini</i> ,	498

LIST OF ILLUSTRATIONS

Found in the Report of 1905 on the Fishes of
New Jersey

Also those of Fish in 1906 Report

Illustrations marked plate are found in the back of the Reports, while those marked page are to be found on the page designated.

	<i>1905 Plate</i>	<i>1905 Page</i>	<i>1906 Plate</i>	<i>1906 Page</i>
A.				
Albacore	22			
Alewife	96			
anchovies, Long finned			86	
anchovy, Broad banded			85	
Slender				267
angel, Black	73			
Angel fish	71			
Blue			108	
B.				
Balaos				286
Banded pickerel			93	
Barb	67			
Barn door skate	4			
Barracuda				289
Northern		222		
bass, Large mouth black	102			
sea, black	51			
Small mouthed black	101			
Strawberry	99			
Striped	48			
Bergall	69			
Big spotted skate	3			
Bill fish		207		
Black fish	70			328
sea bass	51			286
blennies, Shell			115	
Blenny				343
Shell			115	

188 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 <i>Plate</i>	1905 <i>Page</i>	1906 <i>Plate</i>	1906 <i>Page</i>
Blue fish		266		
Bonito		242		
box fish, Hairy				336
Brook trout	8			
Brown trout			119	
Butter fish	72	270		
streaked			107	
Butterfly fish	72			
Burr fish		367		

C.

Cat fish	14			
cat, Stone	15			
fish, Pine Barren			92	
Sea	14			
White		167		
Yellow		169		
Chub		131	89	268
Coachman			103	
Cod	94			
Tom	93			
Common pampano	34			
Conger eel		122		
pout		407		
Crab eater		268		
Crappie			122	
Crevaille	27			
Croaker			106	
Cutlass fish	23			
Cusk		422		

D.

dace, Long-nosed				275
Rosy				269
Devil fish	5			
Doctor fishes			109	
Dollar fish	30, 31	260		
Dolphin		273		
Double bearded flying fish				288
drum, Black		338		
drums, Red	64			
Dusky shark			72	

E.

Crab eater	268
Eel	119
Conger	122
Sand	408
eel pout, Conger	407

	1905 <i>Plate</i>	1905 <i>Page</i>	1906 <i>Plate</i>	1906 <i>Page</i>
F.				
fish, Angel	71			
angel, Blue			108	
Bill		207		
Black	70			328
Blue		266		
Butter		270		
Butterfly	72			
Burr		367		
cat, Stone	15			279
Cod	94			
Cutlass	23			
Doctor			109	
Dollar	30	260		
Devil	5			
Flying		211		
Fool	75			
Gar		119		285
Goat	52			
Gold	98			
Goose	96			
Hairy Box				336
King	60			325
Lizard	9			
Lump	82			
May		185, 187		
Moon	29			
Mouse			118	
Mud	16			
Ocean Sun	78			
Pilot	24			
Pipe				290
Pork	56			
Rabitt		362		
Rain water				283
Rudder	35			
Sail				295
Saw		69		
Sea Cat	14			
Spotted cat	15			
sun, Mud	37			
Suck	84			
Sword		249		
Tile	68			
Toad			116	343
Trigger	74			
Trumpet			98	
Trunk				335
Unicorn	76			
Weak		330		322
Wolf				405
flounder, Summer	87			
flounders, Little			113	
Winter	89			

190 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Plate	1905 Page	1906 Plate	1906 Page
Fluke	88			
Flying fish		211		
robin	83			
flying fish, Double bearded				288
Fool fish	75			
Fusiform darter	47			

G.

Gar	19			285
pike			83	
gar, Green		204		
gazer, Star	91			
Gizzard shad	7			
Globe fish	97			
Goat fish	62			
Goggle-eye	100			
Gold thread shiner				269
Green gar		204		
Grouper	50			
Grunt	55			
Gudgeon				270

H.

Haddock	95			
Hairy box fish				336
Halibut	86			
Hammer head shark			76	
head, Horny		153	90	
Sheep's	60, 61			
Hedgehog ray	2			
Herring		98		264
Common		93		
Fall		94		
Thread				266
Horny head		153	90	
horse, Sea	21			

J.

Jenny Lind	26			
Jurel	38			

K.

King fish	66			325
-----------------	----	--	--	-----

	1905 Plate	1905 Page	1906 Plate	1906 Page
L.				
Lamprey	49			
Large mouthed black bass	102			
launces, Sand		410		
Leather carp	97			
Leopard shark			71	
light, Window	85			
Lind, Jenny	26			
Ling		420		
Thimble-eye		420		
Little flounders			113	
Lizard fish	9			
Long eared sun fish	41			
Lump fish	82			
M.				
Mackerel		238		
porbeagle	1			
mackerel, Spanish		244		
Thread			101	
Yellow		256		
May fish		185, 187		
Menhaden	6			
Miller's thumb			110	
Minnow		145		
Abbott's		147		
Attractive		148		
Barred		194, 195		
Blunt nosed			87, 88	
Bridled	11			
Cut lips	13			
Pursy		199, 200		
Rock				281
Silvery		35		
minnows, mud	16			
Top	18	(Plate 66, 67 in 1907 Report)		
Swallow	12			
Mojarras			105	
Moon fish	29			
Mouse fish			118	
Morays	10			
Mud blower		417		
fish	16			
minnow	16			
sun fish	37			
mullet, White		220		
Mummichog	17			
Muskalunge			121	
N.				
Naked gobies			111	
Northern barracuda		222		

192 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 <i>Plate</i>	1905 <i>Page</i>	1906 <i>Plate</i>	1906 <i>Page</i>
O.				
Ocean sun fish	78			
Ocellated butterfly fish				329
P.				
pampano, Common	34			
Round	33			
perch, Pike	103			
Red sea	79			
Silver	63			323
Triple tailed	53			
Yellow	44			
pickerel, Banded			93	280
Chain		179		
pig fish, Sand		382		
Pike perch	103			
Gar			83	
Pilot fish	24			
Pipe fish				290
poachers, Sea		377		
Pollock			117	
porbeagle, Mackerel	1			
Pork fish	56			
Porgie	58			
Rhomboidal	59			
Puffers	77			
Southern			68	
R.				
Rabbit fish		362		
Rain water fishes				283
raven, Sea	81			
ray, Hedge hog	2			
rays, Cow nosed			82	
Red drum	64			
sea perch	79			
snapper	54			
red mouth, Speckled	57			
Remora			112	
Rhomboidal porgie	59			
Ribbon half beaks			94	
River sucker		163		
Roach		136, 137		
Rock sun fish		381		
Rosy dace				269
Rough catalufas	52			
Round pampano	33			
Roung sting ray			78	
Rudder fish	35			
rudder fish, Black		272		

	1905 Plate	1905 Page	1906 Plate	1906 Page
S.				
Saibling			120	
salmon, Atlantic		433		
Quinnat		432		
Sand-eel		408		
lance		410		
perch	45			
pig fish		382		
shark			70	
Saw fish		69		
Say's sting ray			80	
Scad		254		
Goggle eyed			100	
Sculpin	80			337
Sea cat fish	15			
horse	21			
horse, White spotted			99	
raven	81			
sea bass, Black	51			316
Shad		100		
Gizzard	7			
shark, Bonnet headed			75	
Dog		67		255
Dusky			72	
Hammer head			76	
Leopard			71	
Mackerel		56		
Sand			70	
Sharp-nosed			74	
Small white				256
Thresher		53		
White			73	
sharks, Basking		57		
Mackerel		56		
Shark's pilot	25			
Sheep's head	60, 61			
Shell blennies			115	
Silver perch	63			323
Silverside		216		288
silversides, Rough scaled			95	
skate, Barn door	4			
Big spotted	3			
Common			77	
Smelt		115		
snapper, Gray	54			
Red	54			
Sole	90			
Spanish mackerel		244		
Speckled red mouth	57			317
Spotted cat fish	15			349
sun fishes			102	
Star gazer	91			
northern			114	342
sticklebacks, Ten spined			96	
Three spined	10			
Stingaree			81	
sting ray, Whip			79	

194 REPORT OF NEW JERSEY STATE MUSEUM.

	1905 Plate	1905 Page	1906 Plate	1906 Page
sting rays, Round			78	
Stone cat fish	15			
Strawberry bass	99			
Striped bass	48			
mullet		218		
Sturgeon		85		
Short nosed		86		
Suck fish	84			
Sucker		156, 157		
Black			91	
Chub		160		
River		163		
sun fish, Banded	39			
Blue	42			
Blue spotted	38			
Common	43			
Deceptive	40			
Long eared	41			
Mud	37			
Ocean	78			
spotted, Banded			102	
Sword fish		249		

T.

Tarpons			84	
Ten pounder		91		
Tessellated darter	46			
Thimble eyed ling		420		
Thread herring				266
Thresher shark		53		
thumb, Miller's			110	
Tile fish	68			
Toad fish			116	
Tom cod	93			
Top minnows	18		66, 67	
Trigger fish	74			
Triple tailed perch	53			
trout, Brook	8			
Brown			119	
Trumpet fish			98	
Trunk fish				335

U.

Unicorn fish	76			
--------------------	----	--	--	--

W.

Weak fish		330		322
fish, Southern		331		
Whip sting ray			79	

	<i>1905</i> <i>Plate</i>	<i>1905</i> <i>Page</i>	<i>1906</i> <i>Plate</i>	<i>1906</i> <i>Page</i>
White cat fish		167		
mullet		220		
shark			73	
Window light	85			
Winter flounder	89			
Wolf fish		425		

Y.

Yellow cat fish		169
mackerel		256
perch	44	

INDEX OF ILLUSTRATIONS

Found in the Report of 1906 on the Amphibians
and Reptiles

	PLATE.		PLATE.
A.		H.	
Anderson's Tree Toad	23	Hellbender	1
		Hog-nosed snake	47
B.		House snake	46
Black-banded lizard	51		
Black snake	41	J.	
Blanding's turtle	68	Jefferson's salamander	6
Blotched salamander	2		
Box tortoise	69	K.	
brown snake, DeKay's	36	Kirtland's snake	37
bull frog	27		
		L.	
C.		Leather snake	32
Chain snake	45	Leather turtle	53
Common soft shelled turtle.....	57	Leopard frog	25
Common tree toad	24	lizard, Black-banded	51
Copper head snake	48	Blue tailed	50
Cricket toad	21	Pine Tree	52
D.		M.	
DeKay's brown snake	36	Map turtle	61
Diamond-back terrapin	62	Mud turtle	59
Dusky salamander	15	Muhlenburg's turtle	65
		Musk turtle	60
F.			
Four-toed salamander	8	N.	
frog, Bull	27	Newt	16, 17
Green	28		
Leopard	25	P.	
Pickerel	29	Painted terrapin	64
Sphagnum	26	Pickerel frog	29
Wood	30	Pickering's tree toad	22
		Pilot snake	34
G.		Pine snake	42
Garter snake	43	Pine tree lizard	52
Green frog	28	Purple salamander	11
Green snake	38		
Green turtle	55, 56		

ILLUSTRATIONS—AMPHIBIANS AND REPTILES. 197

	PLATE.		PLATE.
X.		snake, Worm	31
Rattle snake	49	Snapping turtle	58
Red-backed salamander	9	Spade-foot toad	19
Red-bellied snake	35	Sphagnum frog	26
Red-bellied terrapin	63	Spotted terrapin	67
Red salamander	14	Summer snake	38
Ribband snake	43	Swamp tree toad	20
Ring-necked salamander	5		
Ring-necked snake	40	T.	
		terrapin, Diamond-back	62
S.		Painted	64
salamander, Blotched	2	Red-bellied	63
Dusky	15	Spotted	67
Four-toed	8	Tiger salamander	6
Jefferson's	7	toad, Anderson's tree	23
Long-tailed	13	Common tree	24
Purple	11	Pickering's tree	22
Red	14	Spade foot	19
Red-backed	9	Swamp tree	20
Ring-necked	5	toads, Cricket	21
Speckled	4	Tree	24
Spotted	3	tortoise, Box	69
Sticky	10	Wood	66
Tiger	6	tree lizard, Pine	52
Two-toed	12	turtles, Blanding's	68
snake, Black	41	Common soft-shell	57
Chain	45	Green	55, 56
Copper head	48	Leather	53
DeKay's brown	36	Logger head	54
Garter	44	Map	61
Green	39	Mud	59
Hog-nosed	47	Muhlenberg's	65
House	46	Musk	60
Kirtland's	37	Snapping	59
Leather	32	Two-lined salamander	12
Pilot	34		
Pine	42	W.	
Rattle	49	Water snake	33
Red-bellied	35	Wood frog	30
Ring-necked	40	Wood tortoise	66
Ribband	43	Worm Snake	31
Summer	38		
Water	33		

INDEX OF ILLUSTRATIONS

Found in the Report for 1907 on the Mammals
of New Jersey

	PLATE.		PLATE.
B.		mouse, House	
bat, Georgia	43	Jumping	29, 30
Hoary	46	Lemming	20
Large brown	42	Meadow	21
Red	45	Pine	22
Silver-haired	95	Red-backed	23, 24
bear, Black	55	Ricefield	21
Beaver	32	White-footed	27
C.		Muskrat	28
cat, Wild	58		25
Chipmunk	35	O.	
Common fin-back whale	4	Opossum	1
Common dolphin	10	otter, Carolina	50
Cotton tail	16	P.	
D.		porcupine, Canada	18
deer, Virginia	14, 15	R.	
dolphin, Bottle-nosed	9	rabbit, Cottontail	16
Common	10	White	17
Spotted	10	Raccoon	54
F.		rat, Alleghany wood	26
Flying squirrel	38	Norway	26
Franklin's spermophile	34	S.	
fox, Gray	57	seal, Harbor	48
Red	56	Harp	49
G.		Hooded	47
Grampus	12	shew, Brown	39
Gray Fox	57	Long-tailed	39
squirrel	36	Short-tailed	39
Groundhog	33	Skunk	51
H.		squirrel, Flying	38
hare, Varying	17	Gray	36
Harbor seal	48	Southern Red	37
Harp seal	49	W.	
M.		weasel, New York	53
mink, Southern	52	whale, Black	2
mole, Brewer's	40	Bottle-nosed	8
Naked-tailed	40	Hump-backed	3
Star-nosed	41	Fin-back	4
		Little piked	5
		Pigmy sperm	7
		Sperm	6
		Sulphur-bottom	4
		Wild cat	57
		Woodchuck	33

INDEX OF ILLUSTRATIONS

Found in the Report for 1908 on the Birds of
New Jersey

	PLATE.		PLATE.
B.		Florida gallinule	17
Bald eagle	32	flycatcher, Great-crested	45
Baltimore oriole	52		
Belted kingfisher	36	G.	
Blackbird, Red-winged	50	Gallinule, Florida	17
Black-crowned night heron	14	Goldfinch	55
Bluebird	84	goose, Canada	11
Blue jay	87	grackle, Purple	53
Bobolink	49	Great blue heron	12
Bob White	19	Great crested flycatcher	45
Bonaparte's gull	4	grebe, Horned	1
Brown pelican	7	Pied-billed	2
		grosbeak, Rose-breasted	62
C.		grouse, Ruffed	27
Canada goose	11	gull, Bonaparte's	4
Canvas-back	10	Herring	4
Cardinal	61		
Catbird	76	H.	
chat, Yellow-breasted	74	hawk, Red-tailed	31
Chickadee	80	Rough-legged	30
Chimney swift	42	Sparrow	33
Common tern	5	heron, Black crowned night.....	14
Coot	17	Great blue	12
creepcr, Brown	79	Herring gull	4
Crossbill	54	Horned grebe	1
Crow	48	Horned lark	46
cuckoo, Yellow-billed	35	hummingbird, Ruby-throated	43
D.		I.	
dove, Mourning	29	Indigo-bird	63
Downy woodpecker	37		
duck, Wood	9	J.	
		jay, Blue	47
E.		Junco	58
eagle, Bald	32		
Egret	13	K.	
		Killdeer	24
F.		Kingbird	44
Flicker	39	kingfisher, Belted	36

	PLATE.		PLATE.
kinglet, Golden-crowned	81	shrike, Northern	69
Ruby-crowned	81	snipe, Wilson's	19
King rail	15	Sora	16
Knot	20	sparrow, Chipping	57
		Field	57
		Fox	57
		Song	59
		Swamp	58
		White-throated	56
		swallow, Bank	65
		Barn	66
		Tree	67
		swift, Chimney	42
L.		T.	
lark, Horned	46	tanager, Scarlet	64
Meadow	51	tern, Common	5
Leach's petrel	6	thrasher, Brown	77
loon, Common	3	thrush, Water,	73
		Wood	82
		titmouse, Tufted	80
		Towhee	60
M.		U.	
martin, Purple	65	Upland plover	22
Maryland yellow-throat	74	V.	
Meadow lark	51	vireo, Red-eyed	70
Merganser	8	White-eyed	70
Mourning dove	29	W.	
night heron, Black-crowned	14	warbler, Hooded	72
Nighthawk	41	Myrtle	72
nuthatch, White-breasted	79	Prairie	71
		Yellow	71
O.		waxwing, Cedar	68
oriole, Baltimore	52	Whip-poor-will	40
Ovenbird	73	Wilson's snipe	19
owl, Screech	34	Woodcock	17
Oystercatcher	26	Wood duck	9
		woodpecker, Downy	37
P.		Red-headed	38
pelican, Brown	7	Wood pewee	44
petrel, Leach's	6	wren, Carolina	78
pewee, Wood	44	Winter	78
Pied-billed grebe	2	House	78
pigeon, Passenger	28		
plover, Piping	25		
Upland	22		
Purple grackle	53		
Martin	65		
R.			
rail, King	15		
Redheaded woodpecker	38		
Redstart	75		
Red-winged blackbird	50		
Robin	83		
Ruby-throated hummingbird	43		
Ruffed grouse	27		
S.		Y.	
sandpiper, Semipalmated	21	Yellow-billed cuckoo	35
Spotted	23	yellow-billed Chat	74
Semipalmated sandpiper	21	yellow throat, Maryland	74

INDEX OF ILLUSTRATIONS

Found in the Report for 1910 on the Plants of
New Jersey

	PLATE.		PLATE.
A.		Conrad's crowberry	79
Arbutus	98	Coral-root	53
arum, Green	27	Cotton-grass	19
aster, Stiff-leaved	125	Cranberry	97
azalea, White	58	creeper, Virginia	80
Pink	95	Crossed-leaved milkwort	72
		crowberry, Conrad's	79
		crowfoot, Kidney-leaved	62
		Curly grass	66
B.			
Bear-berry	99, 100	D.	
Bedstraws	117, 118	Dog-toother violet	40, 41
bedstraws, Coast	116		
berry, Partridge	61	E.	
Bladderwort	112, 114	Everlasting	121
blight, Sea	51		
Bloodroot	41	F.	
Blue purline	2	fern, Sweet	54
blueberry, Low	101	flag, Blue	37
Narrow-leaved	101	Flowering wintergreen	76
Tall-leaved	101	foxglove, Purple	107
Blue marsh violet	84	Fringe gentian	103
Bog asphodel	33		
Bone-set	124	G.	
Climbing	122	gentian, Closed	105
Pine Barren	123	Fringed	103
bush, Wandlike	70	Pine Barren	104
Butterfly weed	108	Golden-crest	34
Button-bush	96	goldenrod, Seashore	122
		Sweet Scented	127
C.		Grasses	6 to 15
Cardinal lobellia	119	Grass-pink	33
Cedar Swamp	128	Green arrow arum	27
Chokeberry	67	Groundsel bush	121
Cleavers	116	grass, Curly	66
Climbing bone-set	122	Ground nut	72
clover, Hairy	70		
Red	71		
Club moss	1		
columbine, Wild	62		

H.		PLATE.	N.		PLATE.
Hairy clover	.....	70	nut, Ground	.....	72
hazel, Witch	.....	93	Nuttall's milkwort	.....	74
huckleberry, Black	.....	102			
Blue	.....	102			
Leafy-bracted	.....	102			
I.					
Indian pipe	.....	93			
indigo, Wild	.....	68			
ivy, Poison	.....	80			
J.					
Jack-in-the-pulpit	.....	39			
Jersey pine	.....	3			
L.					
ladies' tresses, Nodding	.....	52			
Slender	.....	51			
Laurel	.....	64			
leucothoe, Swamp	.....	100			
Lilaeopsis	.....	90			
lily, Yellow	.....	39			
Lily-of-the-Valley, False	.....	38			
lobellia, Cardinal	.....	119			
Downy	.....	120			
Lupine	.....	69			
M.					
magnolia, Swamp	.....	60			
mallow, Rose	.....	81			
milkweed, Hairy	.....	109			
Smooth-orange	.....	109			
milkwort, Crossed-leaved	.....	73			
Loosed-spiked	.....	74			
Nuttall's	.....	74			
Maryland	.....	78			
Orange	.....	77			
Pink	.....	75			
Purple	.....	78			
Racemed	.....	75			
Short-leaved	.....	76			
Whorled	.....	74			
mint, Horse	.....	110			
Moccasin flower	.....	42			
Monkey-flower	.....	119			
Mouse-ear	.....	121			
myrtle, Sand	.....	96			
			O.		
			Oldfield pine	.....	2
			orache, Halberd-leaved	.....	57
			Orange Grass	.....	82
			Milkwort	.....	77
			orchis, Green-fringed	.....	46
			Orange	.....	44
			Snowy	.....	47
			P.		
			Partridge berry	.....	61
			Pencil-flower	.....	68
			pennywort, Umbellated	.....	90
			pepperbush, Sweet	.....	93
			phlox, Spotted stem	.....	54
			Pickrel weed	.....	27
			pine, Jersey	.....	3
			Oldfield	.....	2
			Pond	.....	3
			Yellow	.....	3
			Pine Barren bone-set	.....	122
			Leaves	.....	4
			Pink azalea	.....	95
			Sea	.....	106
			Swamp	.....	36
			Wild bean	.....	72
			Pipewort	.....	28, 64
			Pitch pine	.....	2
			Pitcher plant	.....	63, 64
			Plantian, Rattlesnake	.....	50
			pogonia, Rose	.....	48
			Whorled	.....	49
			Poison ivy	.....	80
			popular, Tulip	.....	61
			Prickly pear	.....	29
			Primrose-leaved violet	.....	88
			purlin, Blue	.....	37
			Purple foxglove	.....	107
			Pyxic	.....	34
			R.		
			Rattlesnake master	.....	82
			Red clover	.....	71
			Reed sea sand	.....	5
			Rhododendron	.....	94
			rocket, Sea	.....	56
			rode, Mallow	.....	81
			root, Coral	.....	53
			ruellia, Hairy	.....	115

	PLATE.
Rushes	30, 31
Beaked	18
Nut	19
Spike	17

S.

sage, Wild	123
Saltwort	57
Sand myrtle	96
sandwort, Bigelow's	55
Pine Barren	58
Sea Beach	5, 55
Slender	55
Sea blight	56
Sea rocket	56
Seashore goldenrod	122
Sedges	16, 17, 20, to 26
Skunk cabbage	29, 30
Snake-head	111
snakeroot, Virginia	66
Spotted-stem phlox	54
Spotted wintergreen	91
Spring beauty	84
sundew, Long-leaved	65
Swamp leucothoe	100
Loosestrife	108
magnolia	60
pink	35
Sweet fern	54
pepperbush	92
scented golden rod	127
white violet	89
Thread-leaved sundew	66
tresses, Nodding ladies'	52
Slender ladies'	51

	PLATE.
Tulip poplar	61
Turkey-beard	35
twayblade, Large	43

U.

Umbellated pennywort	90
Vicid	31
violet, Arrow-leaved	87
Bird-footed	85
Blue marsh	84
Dog-toothed	40, 41
Lance-leaved	88
Primrose leaved	88
Ornate leaved	86
Sweet white	89
Thread leaved	88
Wandlike bush	70
water lily, White	59
White azalea	58
white bean, Pink	72
Wild Columbine	62
hydrangea	94
indigo	68
sage	123
Wintergreen	93, 97
Flowering	79
Round-leaved	38
Spotted	91
Witch hazel	93

Y.

Yellow lily	39
pine	3

List of Plates in 1911 Report

PLATE 1.

Eubbranchipus vernalis (Verrill).

PLATE 2.

Eubbranchipus vernalis (Verrill).

PLATE 3.

Ino holmanii (Ryder).

PLATE 4.

Streptocephalus sealii Ryder.

PLATE 5.

Streptocephalus sealii Ryder.

PLATE 6.

Eurycercus lamellatus (Müller).

PLATE 7.

Chydorus sphæricus (Müller).

PLATE 8.

Chydorus bicornutus Doolittle.

PLATE 9.

Daphne pulex (Linnæus).

PLATE 10.

Scapholeberis mucronata (Müller).

PLATE 11.

Scapholeberis armata Herrick.

PLATE 12.

Sida crystallina (Müller).

PLATE 13.

Paracandona euplectella (Brady and Norman).

PLATE 14.

Cypridopsis vidua (Müller).

PLATE 15.

Spirocypris passaica Sharpe.

PLATE 16.

Cypris reticulata Zaddach.

PLATE 17.

Cyclocypris lævis (Müller).

PLATE 18.

Cypria dentifera Sharpe.

PLATE 19.

Naobranchia pomolobi Fowler.

PLATE 20.

Lernean parasites on Fishes.

PLATE 21.

Lereænicus radiatus (Le Sueur).

PLATE 22.

Pennella filosa (Linnæus).

PLATE 23.

Pennella sagitta (Linnæus).

PLATE 24.

Lerneoceropsis septemramosus Fowler

PLATE 25.

Philorthragoricus serratus (Krøyer).

PLATE 26.

Orthagoriscola muricata (Krøyer).

PLATE 27.

Cecrops latreillii Leach.

PLATE 28.

Pandarus sinuatus Say.

PLATE 29.

Pandarus sinuatus Say

PLATE 30.

Perissopus communis R. Rathbun.

PLATE 31.

Perissopus communis R. Rathbun.

PLATE 32.

Lepeophtheirus edwardsi C. B. Wilson.

PLATE 33.

Ergasilus labracis Kroyer.

PLATE 34.

Cyclops serrulatus Fischer.

PLATE 35.

Calanus finmarchicus (Gunner).

PLATE 36.

Argulus alosæ Gould.

PLATE 37.

Argulus trilineatus C. B. Wilson.

PLATE 38.

Argulus versicolor C. B. Wilson.

PLATE 39.

Lepas anserifera Linnæus.

Conchoderma virgata (Spengler).

PLATE 40.

Lepas fascicularis Ellis and Solander.

PLATE 41.

Lepas anatifera Linnæus.

PLATE 42.

Lepas anatifera Linnæus.

PLATE 43.

Lepas pectiata Spengler.

PLATE 44.

Lepas anserifera Linnæus.

Lepas fascicularis Ellis and Solander.

Lepas pectinata Spengler.

Lepas anatifera Linnæus.

PLATE 45.

Balanus balanoides (Linnæus).

PLATE 46.

Balanus crenatus Bruguière.

PLATE 47.

Balanus eburneus Gould.

PLATE 48.

Chelonobia testudinaria (Linnæus).

PLATE 49.

Coronula diadema (Linnæus).

PLATE 50.

Caprella acutifrons Latreille.

PLATE 51.

Cerapus tubularis Say.

PLATE 52.

Corophium cylindricum (Say).

PLATE 53.

Unciola irrorata Say.

Haustorius arenarius (Slabber).

PLATE 54.

Melita nitida S. I. Smith.

PLATE 55.

Carinogammarus mucronatus (Say).

PLATE 56.

Gammarus locusta (Linnæus).

PLATE 57.

Gammarus fasciatus Say.

PLATE 58.

Elasmopus levis (S. I. Smith).

PLATE 59.

Ampithoe longimana (S. I. Smith).

PLATE 60.

Ampithoe rubricata (Montagu).

PLATE 61.

Orchestia agilis S. I. Smith.

PLATE 62.

Orchestia palustris S. I. Smith.

PLATE 63.

Talitrus longicornis Say.

PLATE 64.

Talitrus megalophthalmus (Bate).

PLATE 65.

Talitrus megalophthalmus (Bate).

PLATE 66.

Scyphacella arenicola S. I. Smith.

Philoscia vittata Say.

PLATE 67.

Armadillidium vulgare (Latreille).

PLATE 68.

Armadillidium vulgare (Latreille).

PLATE 69.

Porcellio scaber Latreille.

PLATE 70.

Porcellio lævis Latreille.

PLATE 71.

Oniscus asellus Linnæus.

PLATE 72.

Asellus communis Say.

PLATE 73.

Probopyrus pandalicola (Packard).

PLATE 74.

Probopyrus pandalicola (Packard).

PLATE 75.

Probopyrus pandalicola (Packard).

PLATE 76.

Leidya distorta (Leidy).

PLATE 77.

Erichsonella filiformis (Say).

Erichsonella attenuata (Harger).

PLATE 78.

Edotia triloba (Say).

Idotea metallica Bosc.

PLATE 79.

Idotea balthica (Pallas).

PLATE 80.

Chiridotea cœca (Say).

Cilicæa caudata (Say).

PLATE 81.

Sphæroma quadridentatum Say.

Ancinus depressus (Say).

PLATE 82.

Cassidisca lunifrons (H. Richardson).

PLATE 83.

Limnoria lignorum (Rathke).

Ceratothoa impressa (Say).

PLATE 84.

Ægathoa oculata (Say).

PLATE 85.

Livoneca ovalis (Say).

PLATE 86.

Olencira prægustator (Latrobe).

PLATE 87.

Nerocila munda Harger.

PLATE 88.

Cirolana concharum (Stimpson).

PLATE 89.

Cyathura carinata (Kröyer).

Leptochelia savignyi (Kröyer).

PLATE 90.

Mysis sp.**Tanais robustus** H. F. Moore.

PLATE 91.

Chloridella empusa (Say).

PLATE 92.

Penæus setiferus (Linnæus).

PLATE 93.

Crago septemspinosus (Say).

PLATE 94.

Palæmonetes vulgaris (Say).

PLATE 95.

Virbius pleuracanthus Stimpson.**Chloridella empusa** (Say).

PLATE 96.

Homarus americanus Milne-Edwards.

PLATE 97.

Homarus americanus Milne-Edwards.

PLATE 98.

Homarus americanus Milne-Edwards.

PLATE 99.

Homarus americanus Milne-Edwards.

PLATE 100.

Cambarus bartonii (Fabricius).

PLATE 101.

Cambarus bartonii (Fabricius).

PLATE 102.

Cambarus diogenes Girard.

PLATE 103.

Cambarus diogenes Girard.

PLATE 104.

Cambarus limosus (Rafinesque).

PLATE 105.

Cambarus limosus (Rafinesque).

PLATE 106.

Cambarus blandingii (Harlan).

PLATE 107.

Cambarus blandingii (Harlan).

PLATE 108.

Upogebia affinis (Say).

PLATE 109.

Emerita talpoida (Say).

PLATE 110.

Emerita talpoida (Say).

PLATE 111.

Pagurus pollicaris Say.

PLATE 112.

Pagurus longicarpus Say.

PLATE 113.

Hyas coarctatus Leach.

PLATE 114.

Libinia dubia Milne-Edwards.

PLATE 115.

Libinia emarginata Leach.

PLATE 116.

Calappa flammea (Herbst).

PLATE 117.

Eurypanopeus depressus (S. I. Smith).

PLATE 118.

Eurypanopeus depressus (S. I. Smith).

PLATE 119.

Rhithropanopeus harrisii (Gould).

PLATE 120.

Rhithropanopeus harrisii (Gould).

PLATE 121.

Neopanope texana sayi (S. I. Smith).

PLATE 122.

Eupanopeus herbstii (Milne-Edwards).

PLATE 123.

Eupanopeus herbstii (Milne-Edwards).

PLATE 124.

Eurytium limosum (Say).

PLATE 125.

Carcinides mænas (Linnæus).

PLATE 126.

Carcinides mænas (Linnæus).

PLATE 127.

Arenæus cribrarius (Lamarck).

PLATE 128.

Callinectes sapidus M. J. Rathbun.

PLATE 129.

Callinectes sapidus M. J. Rathbun.

PLATE 130.

Callinectes sapidus M. J. Rathbun.

PLATE 131.

Ovalipes ocellatus (Herbst).

PLATE 132.

Ovalipes ocellatus (Herbst).

PLATE 133.

Cancer borealis Stimpson.

PLATE 134.

Cancer irroratus Say.

PLATE 135.

Cancer irroratus Say.

PLATE 136.

Pinnotheres maculatus Say.

PLATE 137.

Pinnotheres maculatus Say.

PLATE 138.

Pinnotheres ostreum Say.

PLATE 139.

Sesarma reticulatum (Say).

PLATE 140.

Planes minutus (Linnæus).

PLATE 141.

Planes minutus (Linnæus).

PLATE 142.

Uca pugilator (Bosc).

PLATE 143.

Uca pugilator (Bosc).

PLATE 144.

Uca minax (Le Conte).

PLATE 145.

Uca minax (Le Conte).

PLATE 146.

Uca pugnax (S. I. Smith).

PLATE 147.

Uca pugnax (S. I. Smith).

PLATE 148.

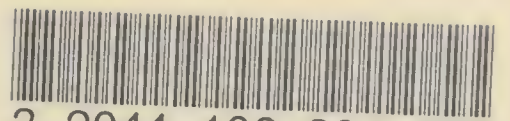
Ocypode albicans (Bosc).

PLATE 149.

Ocypode albicans (Bosc).

· PLATE 150.

- Fig. 1. **Pandarus sinuatus** Say.
- Fig. 2. **Idotea metallica** Bosc.
- Fig. 3. **Idotea balthica** (Pallas).
- Fig. 4. **Unciola irrorata** Say.
- Fig. 5. **Gammarus locusta** (Linnæus).
- Fig. 6. **Carinogammarus mucronatus** (Say).
- Fig. 7. **Talitrus megalophthalmus** (Bate).
- Fig. 8. **Talitrus longicornis** Say.
- Fig. 9. **Haustorius arenarius** (Slabber).
- Fig. 10. **Lepas fascicularis** Ellis and Solander.
- Fig. 11. **Balanus balanoides** (Linnæus).



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